ORDER NO.VMD0209050C8

Service Manual

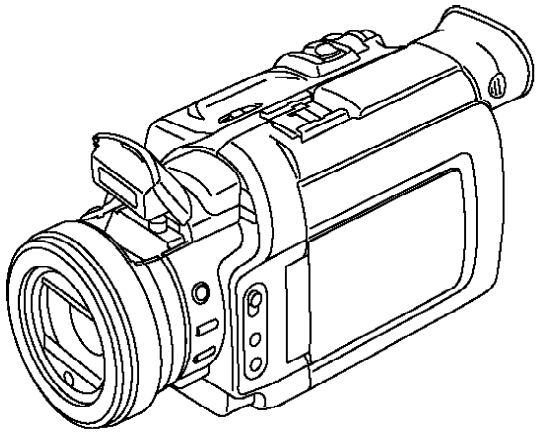
Digital Video Camera/Recorder

Panasonic Mini DV PAL USB MultiMediaCard™ SD

NV-MX500EG / NV-MX500B / NV-MX500EN / NV-MX500A / NV-MX500ENT

VOL.1

Q3-MECHANISM



SPECIFICATIONS

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Digital Video Camera

ITEM	SPECIFICATION
POWER	Source: DC 7.9 / 7.2 V Consumption: Recording 4.9 W (When using Viewfinder) 5.8 W (When using LCD Monitor)
RECORDING FORMAT	Mini DV (Consumer-use Digital Video SD Format)
TAPE USED	6.35 mm digital video tape
RECORDING / PLAYBACK TIME	SP mode: 80 min. with DVM80 LP mode: 120 min. with DVM80
CAMERA	Filter Diameter: 43.0 mm
	Zoom: 10:1 Power Zoom
	Monitor: 2.5-inch LCD
	Lens: Auto Iris, F1.6, Focal Length; 2.85 - 28.5 mm Macro (Wide Range Macro)
	Image Sensor: 1/6-inch CCD Image Sensor
	Viewfinder: Colour Electronic Viewfinder
VIDEO	Recording System: Digital Component
	Television System: CCIR; 625 Lines, 50 Fields PAL Colour Signal
	Video Output Level: 1.0 Vp-p, 75Ω S-Video Output Level: Y Output; 1.0 Vp-p, 75Ω C Output; 0.3 Vp-p, 75Ω Video Input Level: 1.0 Vp-p, 75Ω S-Video Input Level: Y Input; 1.0 Vp-p, 75Ω C Input; 0.3 Vp-p, 75Ω
AUDIO	Recording System: PCM Digital Recording 16 bit (48 kHz/2 ch) 12 bit (32 kHz/4 ch)
	Audio Output Level (Line): 316 mV, 600Ω Audio Input Level (Line): 316 mV, 10 kΩ or more Mic Input: Mic sensitivity -50dB(0dB=1V/Pa,1kHz) (Stereo Mini Jack)
CARD MEMORY FUNCTIONS	Recording Media: SD Memory Card, MultiMediaCard Image Compression: JPEG Video Compression: MPEG4 Still Image Size: Mega-Pixel Recording; 2048 X 1496 (1.23 million pixels) VGA Recording; 640 X 480 Sound Compression: G.726

ITEM	SPECIFICATION
STANDARD ILLUMINATION	1,400 lx
MINIMUM REQUIRED ILLUMINATION	10 lx (Low Light Mode)
USB / Mini System(Ë)	Card reader / writer function, USB 2.0 compliant (maximum 12Mbps) No copyright protection support / Mini System editing terminal
DIGITAL STILL PICTURE	Digital Still Picture Output, Control Signal Input / Output (Transfer rate: max. 115 kbps)
DIGITAL INTERFACE	DV Input/Output Terminal (IEEE1394, 4-pin)
MICROPHONE	Stereo
SPEAKER	1 round speaker ϕ20 mm
VIDEO FLASH	GN 6
OPERATING TEMPERATURE	0 - 40 °C
OPERATING HUMIDITY	10 - 80 %
WEIGHT	Approx. 750 g(without Battery and DV Cassette) Approx. 845 g(with CGR-D08R and DVM60)
DIMENSIONS	Approx. 74.5 (W) x 90.6 (H) x 179 (D) mm
STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack Unit 1 pc. DC Cable 1 pc. AC Cord ; NV-MX500EG/EN/A/ENT 1 pc. AC Cord ; NV-MX500B/EN/ENT 1 pc. AV Cable 1 pc. Remote Controller 1 pc. Bottom-type Battery 1 pc. Head Cleaner ; NV-MX500EN/A/ENT 1 pc. Hood Cap Unit 1 pc. CD-ROM For PC Kit 1 pc. USB Cable 1 pc. SD Card 1 pc. Shoulder Belt 1 pc. Operating Instructions 1 pc. Operating Instructions For PC Kit 1 pc. Universal Remote Controller
SOLDER	This model use lead free solder (PbF).

Weight and dimensions are approximate values.
Specifications may change without prior notice.

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION

This service manual contains technical information which will allow service personnel's to understand and service this model.Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplement service manual to be filed with original service manual.

Information for Q-Mechanism should be referd to the another manual as below.

Order No. : VMD0109026C8

Note 1:

These movie cameras use AC Adaptor is VSK0581-A.

The service manual for AC Adaptor is separate volume.

Order number for AC Adaptor .....VSK0581-A : VMD0105013C8

Note 2:
1) This service manual does not contain the following information, because of the impossibility of sevicing at component level.

1. Schematic Diagram, Block Diagram and C.B.A. layout of Main C.B.A./ Sub C.B.A.

2. Parts List for individual parts of Main C.B.A./ Sub C.B.A.

3. Exploded View and Parts List for individual parts of Mechanism Unit.

2) The following category is/are recycle module part. Please send it/them to Central Repair Center.

***Main C.B.A. (VEP03G20B)**
***Sub C.B.A. (VEP23569B)**

When a part replacement is required for repairing each Main C.B.A. and/ or Mechanism block, replace the assembly parts.
(Main C.B.A., Sub C.B.A. and/ or Mechanism Unit)
The following circuits are contained in Main C.B.A.

1. Main Connection Circuit

2. Drive Circuit

3. Video 1 Circuit

4. Video 2 Circuit

5. Control Circuit

6. LCD Circuit

7. Head/ Rec Amp Circuit

8. Power Circuit

9. Ex. Input Circuit

The following circuits are contained in Sub C.B.A.

1. Sub Connection Circuit

2. Sensor Circuit

3. Lens Drive Circuit

4. Process Circuit

5. DSC Circuit

About lead free solder (PbF)

Distinction of PbF PCB:
PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50-70°F (30-40°C) higher. Please use a high temperature soldering iron. In case of the soldering iron with temperature control,please set it to 700±20°F (370±10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).

When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

1.2. FEATURE COMPARISON CHART

FUNCTION	EG	B	EN	A	
Card Function (Multi Media Card, SD Card)	●	●	●	●	
External DV/ VIDEO Input	●	●	●	●	
MPEG4 Recording	●	●	●	●	

2. CAUTION FOR AC CORD (VJA0940 TYPE)

2.1. INFORMATION FOR YOUR SAFETY

IMPORTANT
Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

FOR YOUR SAFETY
DO NOT REMOVE THE OUTER COVER

To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.2. CAUTION FOR AC MAINS LEAD

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362
Check for the ASRA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.
If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

2.2.1. Important

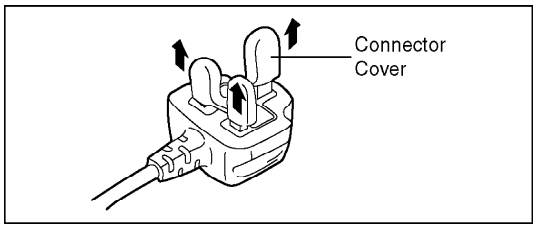
The wires in this mains lead are coloured in accordance with the following code:

Blue	**Neutral**
Brown	**Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol.

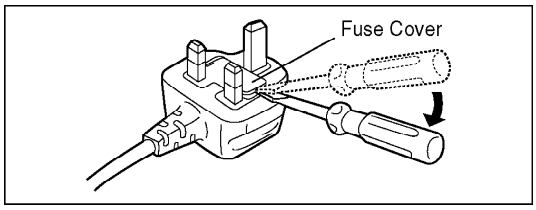
2.2.2. Before use

remove the Connector Cover as follows.

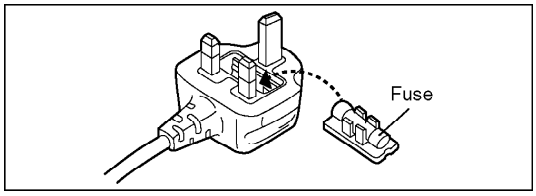


2.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.

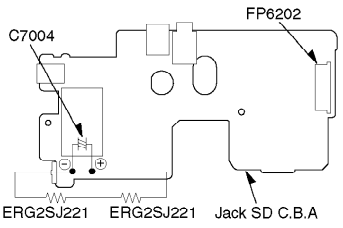


3. SERVICE CAUTION

3.1. HOW TO DISCHARGE THE CAPACITOR ON JACK SD C.B.A.

CAUTION
Be sure to discharge the capacitor on Jack SD C.B.A. before disassembling.
CAUTION
Be careful of the high voltage circuit on Jack SD C.B.A. when servicing.

Method:
1.Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.
Note:
Above 2 Resistors may be substituted with equivalent type.
2.Make short circuit using 2 Resistors between C7004(+) and C7004(-) for 3 seconds as follows.
3.After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter



3.2. EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.

When the Main C.B.A. is replaced, the fixed and average data must be changed by Tatsujin kit according to the Movie Camera's suffix.
Then, confirm and/or adjust the VTR and Camera section one by one.

3.3. SERVICE EXTENSION CABLES

This models is required the following extension cables for all connections.

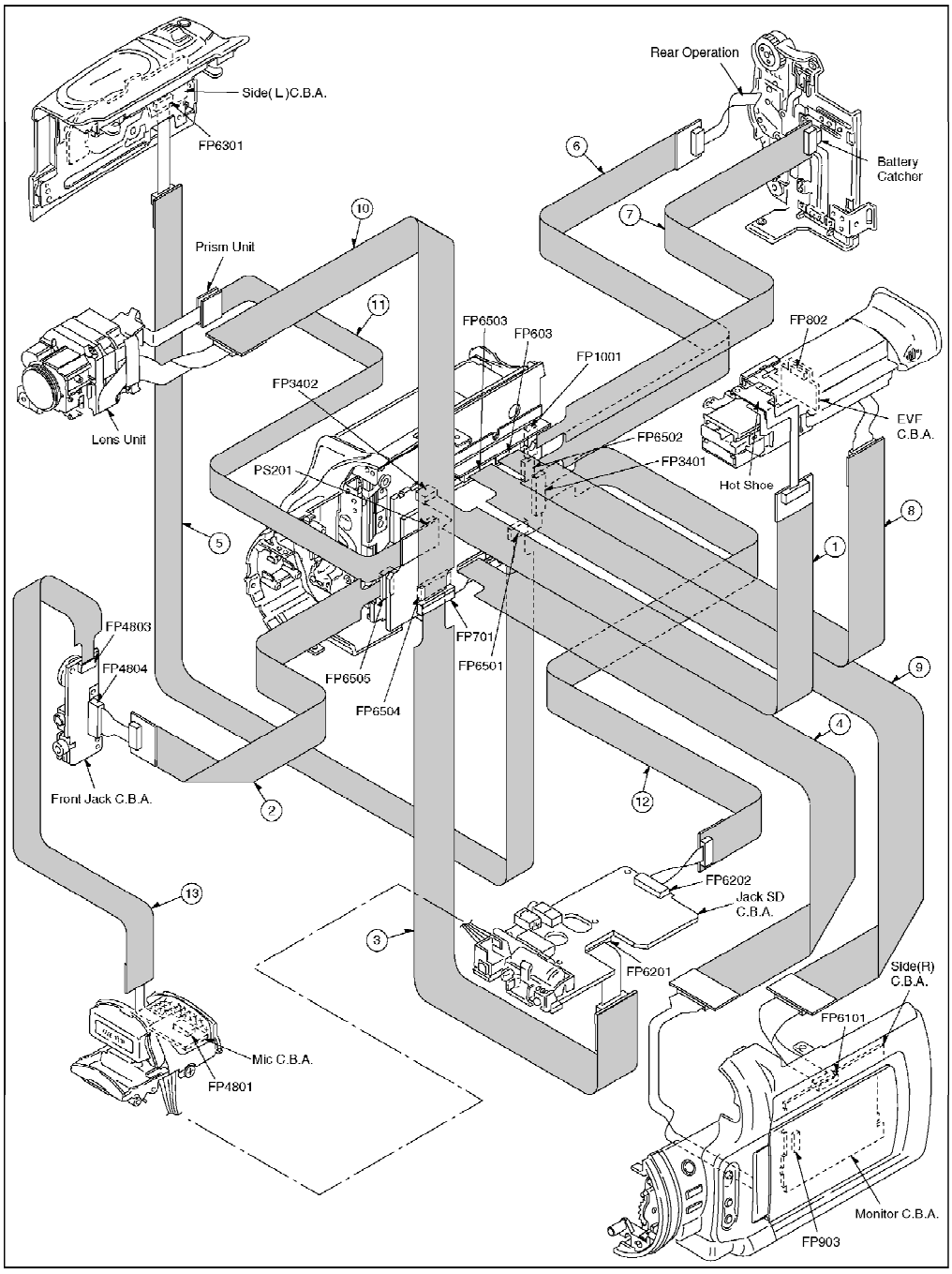
Note 1:
Use the following extension cables when checking or adjusting individual circuit boards except module Parts.

(Main C.B.A. and Sub C.B.A.)

Ref.	Part No.	Pin	Part Name	Connection	Q'ty	Remarks
(1)	VFK1441	8	Flat Cable	FP3402 (Main) - Hot Shoe	1	as NV-DS77
(2)	VFK1491	27	Flat Cable	FP6505 (Main) - FP4804 (Front Jack)	1	as NV-DS99
(3)	VFK1459	39	Flat Cable	FP6504 (Main) - FP6201 (Jack SD)	1	as NV-EX1
(4)	VFK1492	26	Flat Cable	FP601 (Main) - FP903 (Monitor)	1	as NV-DS99
(5)	VFK1442	21	Flat Cable	FP6501 (Main) - FP6301 (Side L)	1	as NV-DS77
(6)	VFK1452	17	Flat Cable	FP6502 (Main) - Rear Operation	1	as NV-DS77
(7)	VFK1364	14	Flat Cable	FP1001 (Main) - Battery Catcher	1	as NV-DS5
(8)	VFK1461	20	Flat Cable	FP603 (Main) - FP802 (EVF)	1	as NV-EX1
(9)	VFK1492	26	Flat Cable	FP6503 (Main) - FP6101 (Side R)	1	as NV-DS99
(10)	VFK1575C4520	45	Flat Cable	FP701 (Sub) - Lens Unit	1	as NEW
(11)	VFK1453	40	Flat Cable	PS201 (Sub) - Prism Unit	1	as NV-DS77
(12)	VFK1461	20	Flat Cable	FP3401 (Sub) - FP6202 (Jack SD)	1	as NV-EX1
(13)	VFK1441	8	Flat Cable	FP4801 (Mic) - FP4803 (Front Jack)	1	as NV-DS77

How to use extension cables.

Fig. T1-1



3.4. LOCATION FOR SPARE CONNECTORS OF THE MAIN C.B.A.& SUB C.B.A.

3.4.1. MAIN C.B.A.

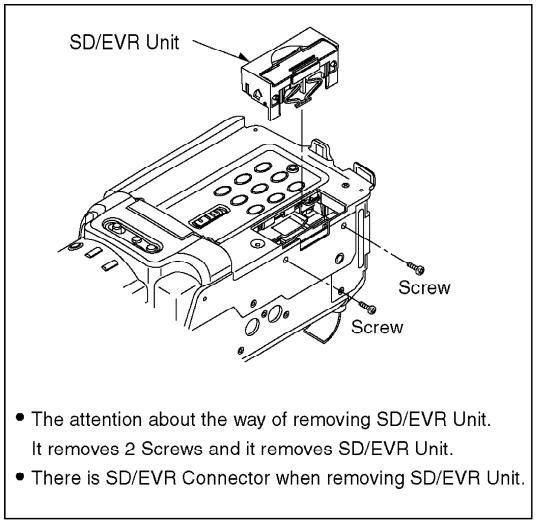
3.4.2. SUB C.B.A.

4. PREPARATION FOR ELECTRICAL ADJUSTMENT

1. Unlock the locking tab and remove the EVR connector as shown in Fig. E1.

2. Then connect the following cables as shown in Fig. E2.

Fig. E1



- The attention about the way of removing SD/EVR Unit.
  It removes 2 Screws and it removes SD/EVR Unit.
- There is SD/EVR Connector when removing SD/EVR Unit.

Part No.	Part Name	Q'ty	Remarks
VFK1395	232C(M3.5)I/F Cable	1	
VFK1308E	EVR Measuring Board	1	
VFK1309	EVR Connector Board	1	
VFK1317 or VFK1511	30 Pin EVR Flat Cable	2	200mm Type 300mm Type
VJA0941	DC Output Cable	1	For AC Adaptor
VFK1164TAR43	Step up Ring	1	For Collimator
VFK1714	Connection Adaptor (30pin)	2	
VFK1763	Connection Adaptor (60-30pin)	1	

Fig. E2

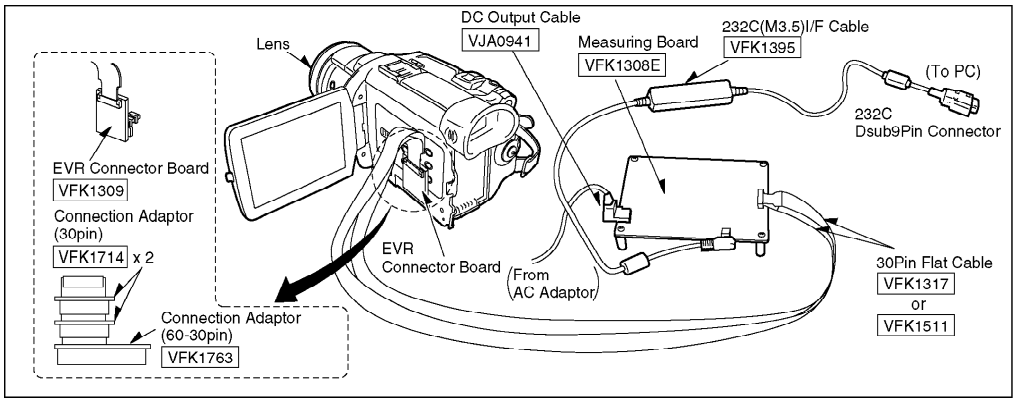
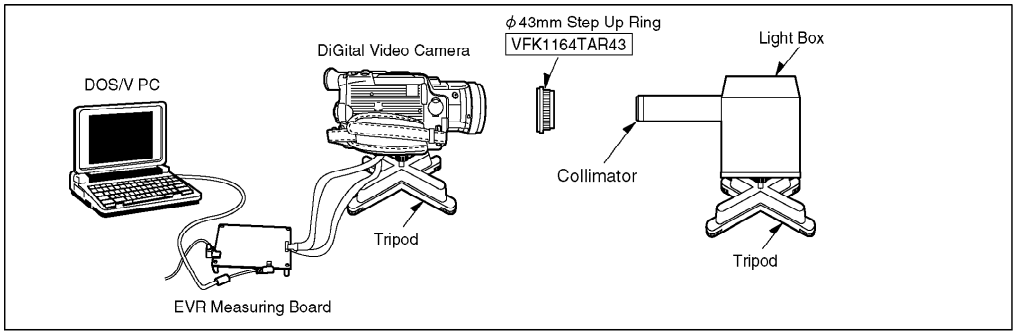


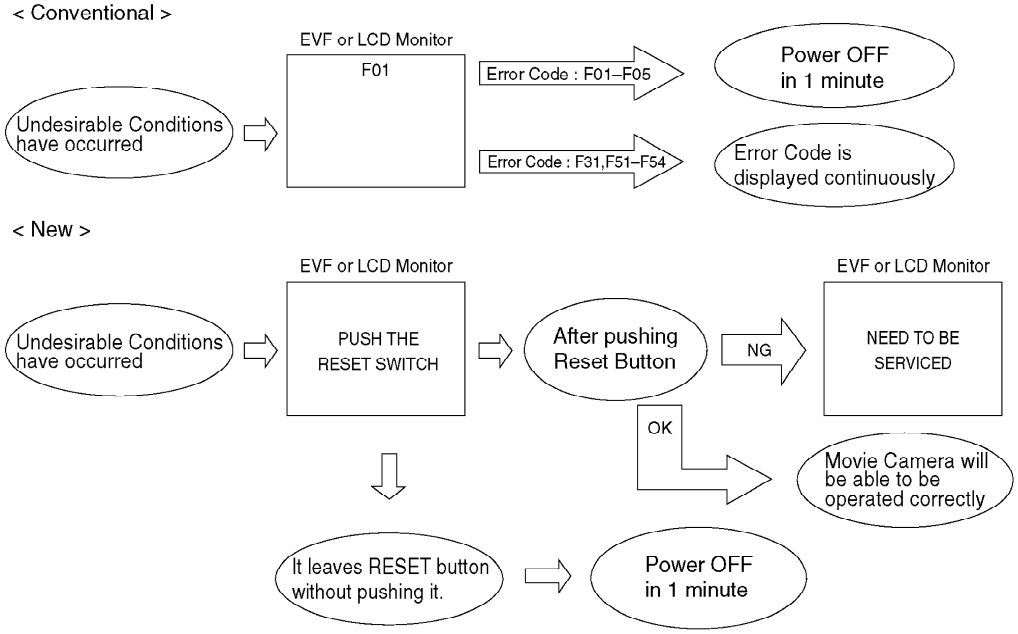
Fig. E3



5. SERVICE MODE

5.1. New Error Code Display

Conventionally, the error code has been displayed automatically on the EVF or LCD Monitor when undesirable conditions have occurred. With the New Error Code Display, the error code has not been displayed automatically as follows except some error codesF31(Data Transmission Error), U10(Dew) and U11(Head Clogging).


< Conventional >
EVF or LCD Monitor
F01
Undesirable Conditions have occurred
Error Code : F01–F05
Power OFF in 1 minute
Error Code : F31,F51–F54
Error Code is displayed continuously
< New >
EVF or LCD Monitor
EVF or LCD Monitor
Undesirable Conditions have occurred
PUSH THE RESET SWITCH
After pushing Reset Button
NG
NEED TO BE SERVICED
OK
Movie Camera will be able to be operated correctly
It leaves RESET button without pushing it.
Power OFF in 1 minute

Note:

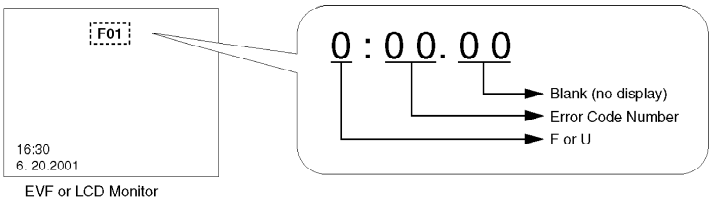
1. **The only some error codes F31, U10 and U11 has displayed automatically on the EVF or LCD monitor as usual.**
2. **The Power LED also has been flashed for 1 min. when undesirable condetions have occurred.(See below)**

5.2. Viewing Error Code

When displaying the Error Code on the EVF or LCD Monitor, push the FADE/STOP and REC START/PAUSE buttons simultaneously for more 3 seconds.

Note:

When the cassette tape is inserted, this operation will not be worked.



EVF or LCD Monitor

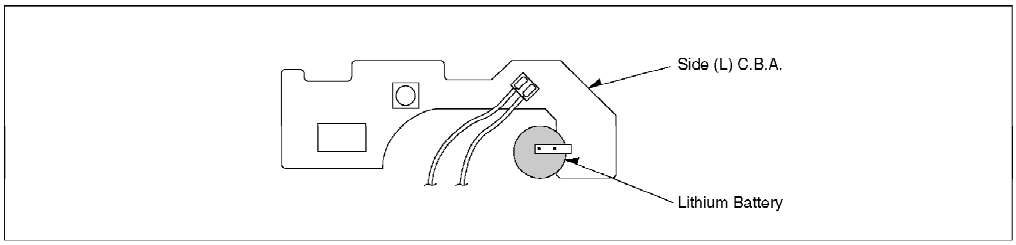
DISPLAY	CONDITION	POWER OFF TIMING / POWER LED FLASHING TIMING
F01	T-Reel Lock	After 1 minute flashing the LED
F02	S-Reel Lock	After 1 minute flashing the LED
F03	Unloading Lock	After 1 minute flashing the LED
F04	Loading Lock	After 1 minute flashing the LED
F05	Cylinder Lock	After 1 minute flashing the LED
F31	Data Transmission Error	Not turning OFF
F51	Zoom Motor Lock	Not turnig OFF Power LED is flashed at 1 Hz timing
F52	Focus Motor Lock	Not turnig OFF Power LED is flashed at 1 Hz timing
F53	OIS Lock 1	Not turnig OFF Power LED is flashed at 1 Hz timing
F54	OIS Lock 2	Not turnig OFF Power LED is flashed at 1 Hz timing
U10	Dew Detection	After 18 seconds flashing the LED Power LED is flashed at 1 Hz timing
U11	Head Clogging	Not turning OFF

6. HOW TO REPLACE THE LITHIUM BATTERY (PROCEDURE)

1. Remove the Side (L) C.B.A.. (Refer to Disassembly Procedures.)

2. Unsolder the Lithium Battery “VSB0407” and then replace the new one. (See Fig. B1.)

Fig. B1



Note:
The lithium battery is a critical component. (Type No.: VSB0407 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

PRECAUTION
Le fait de remplacer incorrectement la pile peut présenter des risques d'explosion.
Remplacer la pile uniquement par une pile identique ou de type équivalent recommandée par le fabricant. Se débarrasser des piles usagées conformément aux instructions du fabricant.

VORSICHT
Bei einer falsch eingesetzten Batterie besteht Explosionsgefahr. Nur mit einer vom Hersteller empfohlenen Batterie vom gleichen Typ ersetzen.
Verbrauchte Batterien beim Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

VARNING
Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!
Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning má kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS
Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

7. OPERATING GUIDE

8. ADJUSTMENT PROCEDURES

8.1. DISASSEMBLE FLOW CHART

This flow chart indicates the disassembly steps the cabinet parts, C.B.A. and Mecha. Unit in order to access to be serviced. When reinstalling, perform the steps in the reverse order.

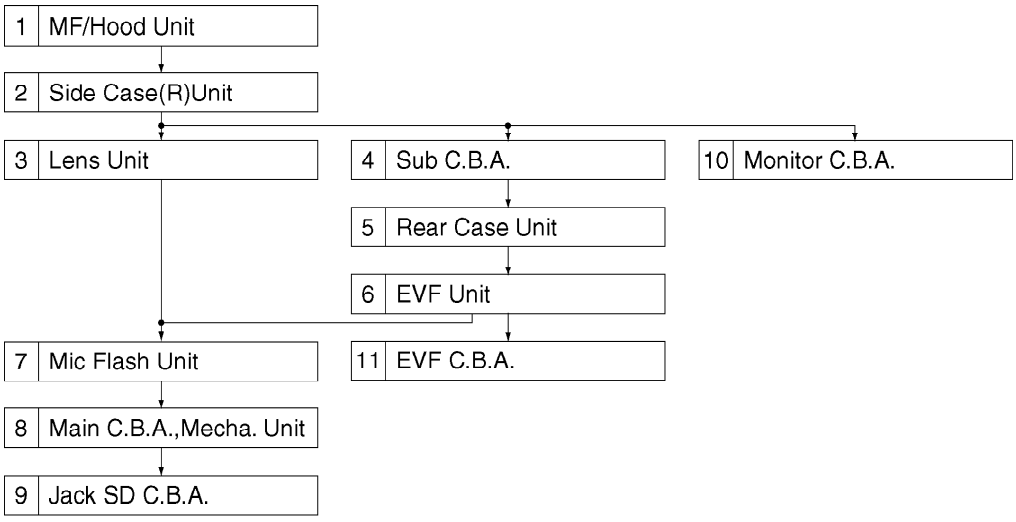
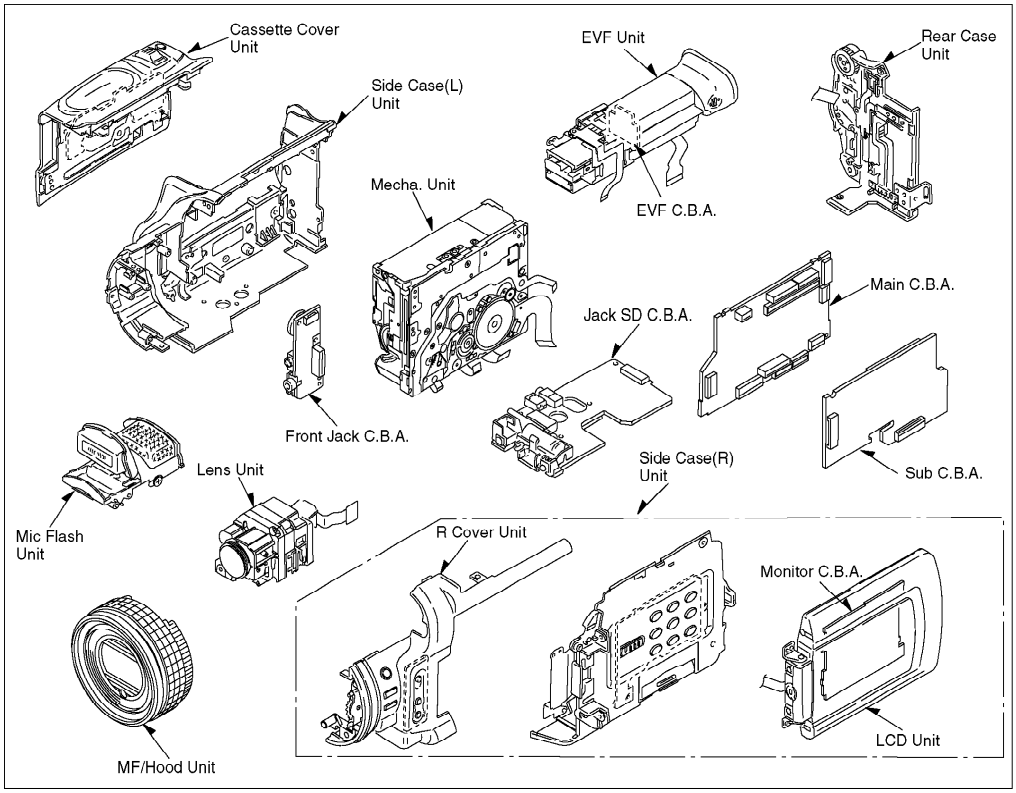


Fig. F1



8.2. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw, Connector, Flex. & Other)
1	MF/Hood Unit	Fig. D2	Flash Open 2-Screws (A)
		Fig. D3	2-Screws (B) MF/Hood Unit
2	Side Case (R) Unit	Fig. D4	2-Screws (C) SD/EVR Unit
		Fig. D5	1-Screw (D)
		Fig. D6	2-Screws (E)
		Fig. D7	1-Screw (F), 2-Screws (G) 2-Connectors FP601, FP6503 Side Case (R) Unit

No.	Item/Part	Fig.	Removal (Screw, Connector, Flex. & Other)
3	Lens Unit	Fig. D8	2-Screws (H) 2-Connectors FP701, PS201 Lens Part
		Fig. D9	2-Screws (I), 1-Screw (J) Lens Frame, Lens Radiation Plate Lens Unit
4	Sub C.B.A.	Fig. D10	2-Connectors FP3401, PP301 Sub C.B.A.
5	Rear Case Unit	Fig. D11	2-Screws (K), 1-Screw (L)
		Fig. D12	Jack Cover Open 1-Screw (M), 1-Screw (N) 2-Connectors FP1001, FP6502 Rear Case Unit
6	EVF Unit	Fig. D13	Cassette Cover Open 1-Screw (O), 1-Screw (P)
		Fig. D14	1-Screw (Q) 2-Connectors FP603, FP3403 EVF Unit
7	Mic Flash Unit	Fig. D15	1-Screw (R) 2-Connectors FP4803, P7001 Mic Flash Unit
8	Main C.B.A., Mecha. Unit	Fig. D16	2-Screws (S),1-Screw (T) 4-Connectors FP6501, FP6504, FP6505, FP6506 4-Tabs Main C.B.A./Mecha. Unit
		Fig. D17	1-Screw (U) 5-Connectors FP2201, FP2202, FP2203, FP2204, FP5001 2-Tabs Main C.B.A 3-Screws (V) Mecha. Frame Unit Mecha. Unit

No.	Item/Part	Fig.	Removal (Screw, Connector, Flex. & Other)
9	Jack SD C.B.A.	Fig. D18	1-Screw (W) Jack Cover Cassette Cover Open 2-Screws (X), 1-Screw (Y) Cassette Cover Unit 1-Screw (Z) Lock Cancellation Lever Down Main Frame Open Cassette Button
		Fig. D19	5-Screws (a), 1-Screw (b) Main Frame Unit/Jack SD Unit
		Fig. D20	Discharge the Capacitor. 4-Screws (c) Jack SD C.B.A.
10	Monitor C.B.A.	Fig. D21	1-Screw (d), 4-Screws (e), 1-Screw (f) LCD Open Detect SW Camera Radiation Plate (Upper) 1-Screw (g) IR Sensor Window
		Fig. D22	2-Screws (h)
		Fig. D23	1-Screw (i) 1-Connector FP6302 1-Tab R Cover Unit 2-Screws (j) LCD Unit
		Fig. D24	1-Screw (k), 2-Screws (l) 7-Tabs LCD Case(Upper) 1-Screw (m) Shield Barrier 1-Connector FP903 LCD Hinge Unit Flex. protect Sheet 1-Screw (n) 1-ConnectorFP901 2-Solder Portion Monitor C.B.A.

No.	Item/Part	Fig.	Removal (Screw, Connector, Flex. & Other)
11	EVF C.B.A.	Fig. D25	1-Tab EVF View Adj. Unit
		Fig. D26	2-Tabs Slide Cover
		Fig. D27	2-Screws (o) 2-Tabs EVF Case (Upper) 1-Connector FP802
		Fig. D28	2-Tabs 1-Connector FP803 EVF C.B.A.

Fig. D1

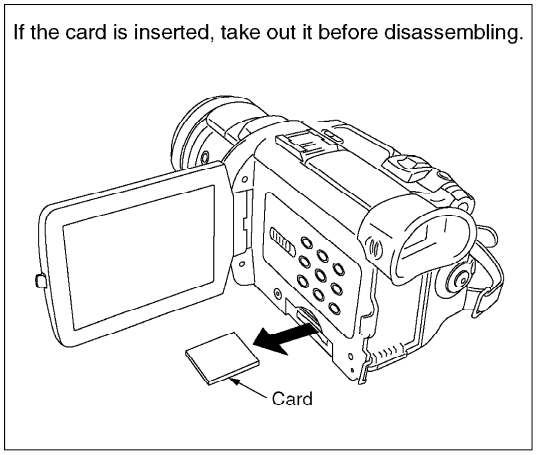


Fig. D2

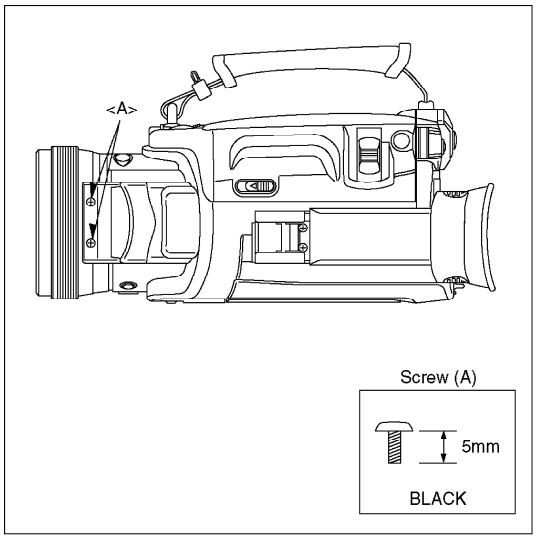


Fig. D3

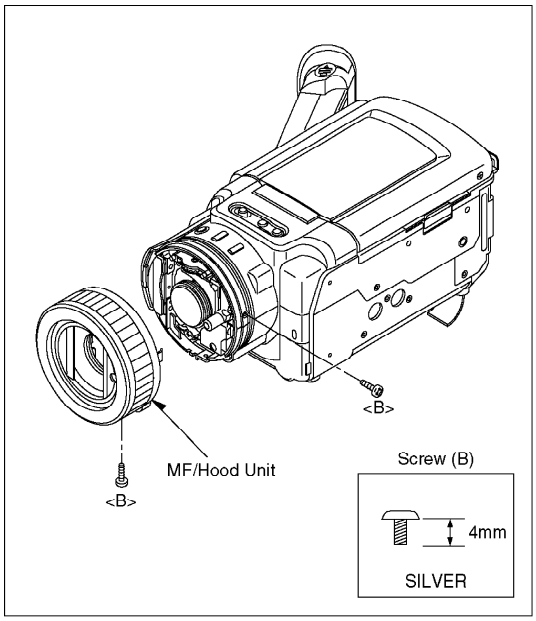

<B>
MF/Hood Unit
<B>
Screw (B)
4mm
SILVER

Fig. D4

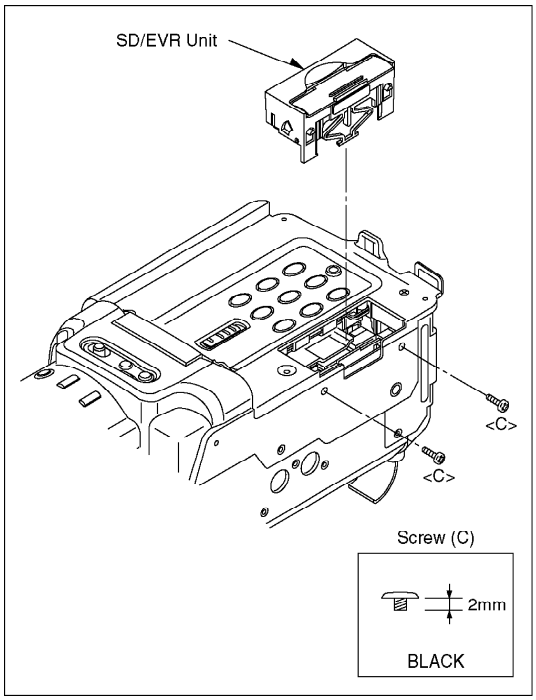

SD/EVR Unit
<C>
<C>
Screw (C)
2mm
BLACK

Fig. D5

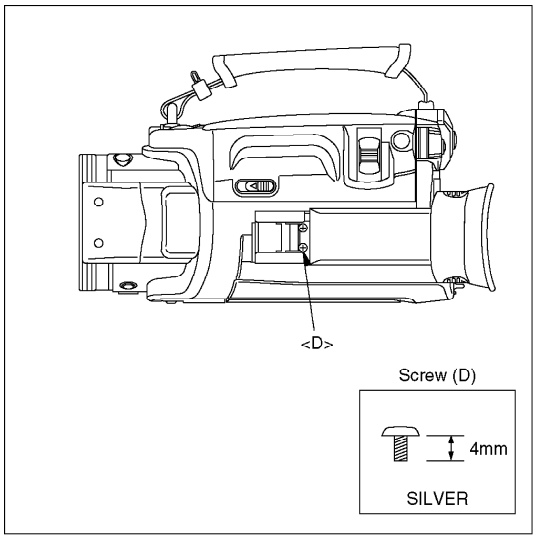


Fig. D6

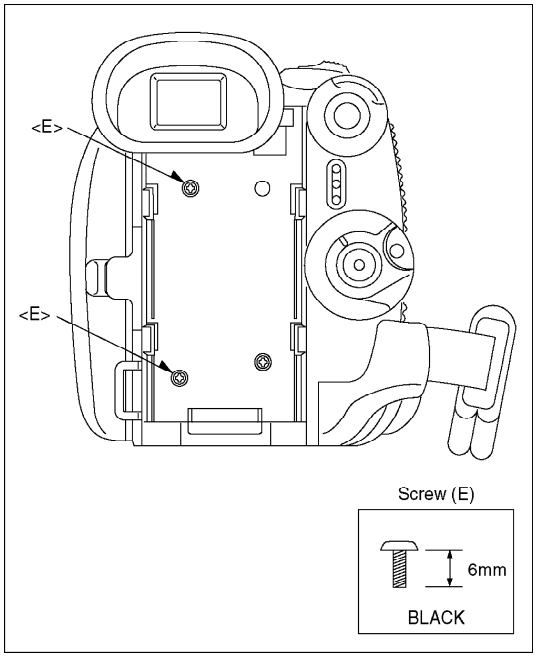


Fig. D7

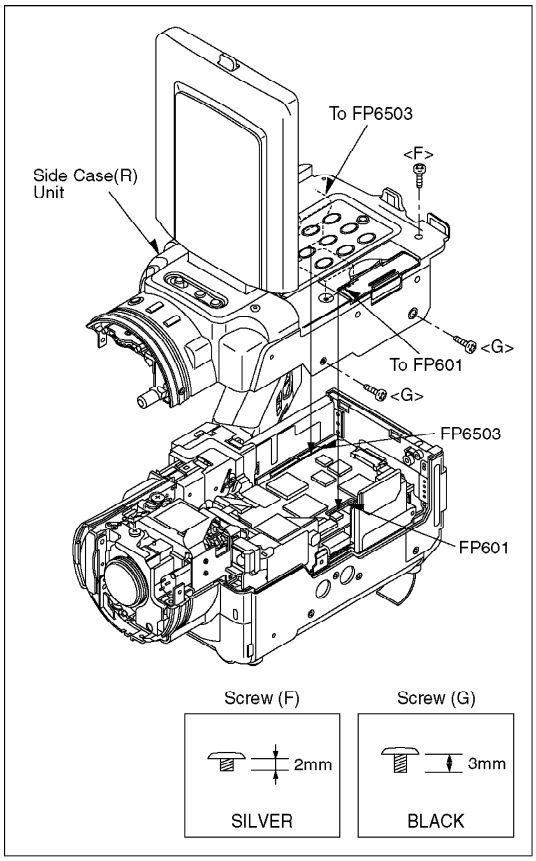

To FP6503
<F>
Side Case(R)
Unit
<G>
To FP601
<G>
FP6503
FP601
Screw (F)
2mm
SILVER
Screw (G)
3mm
BLACK

Fig. D8

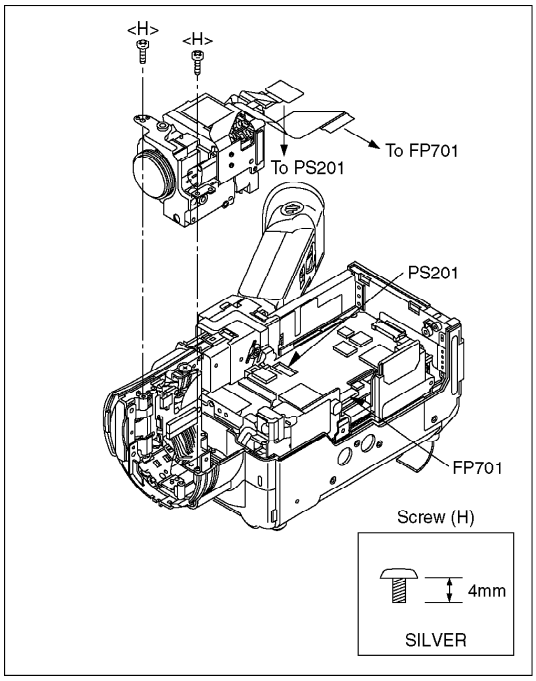

<H>
<H>
To FP701
To PS201
PS201
FP701
Screw (H)
4mm
SILVER

Fig. D9

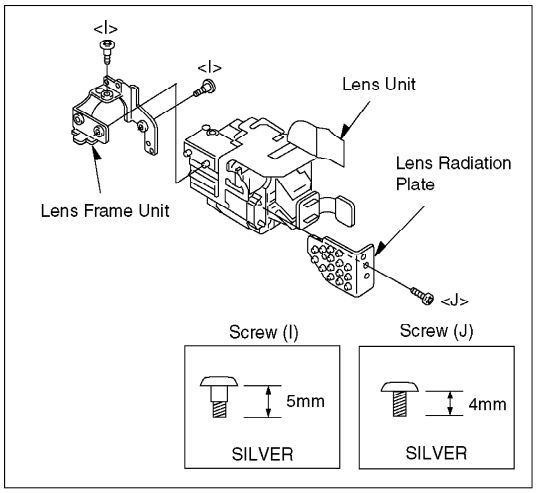


Fig. D10

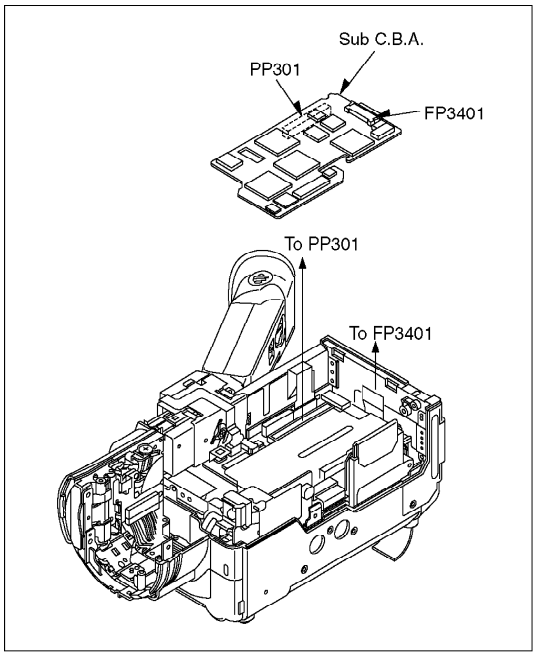


Fig. D11

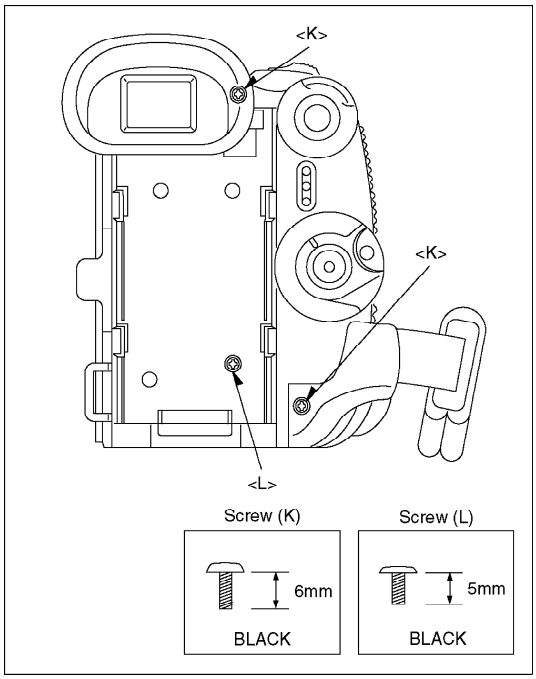


Fig. D12

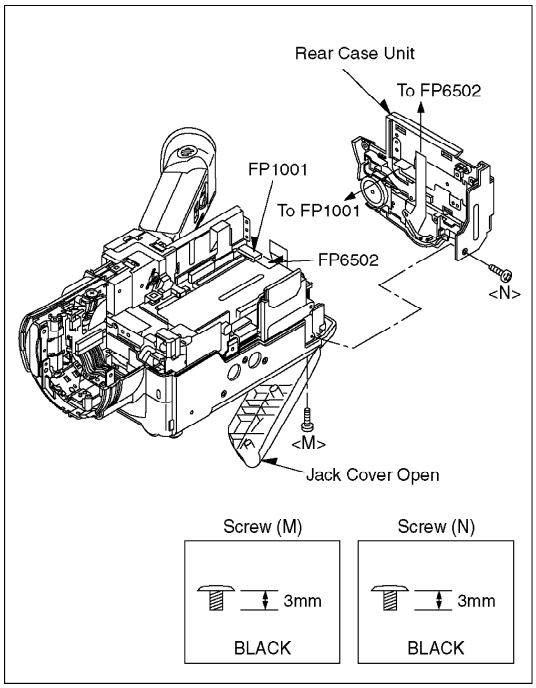


Fig. D13

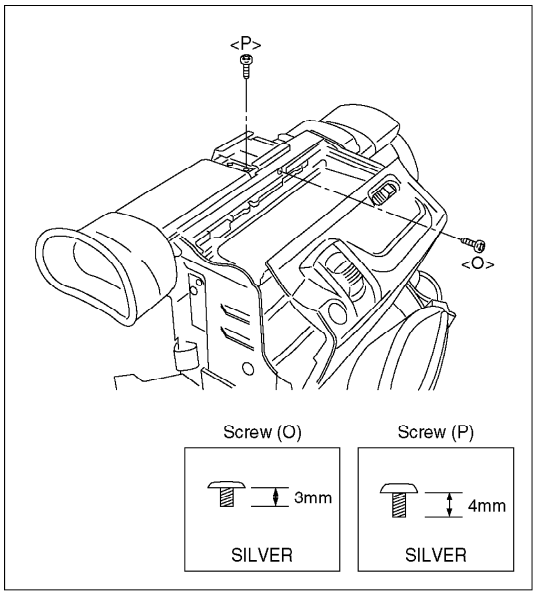


Fig. D14

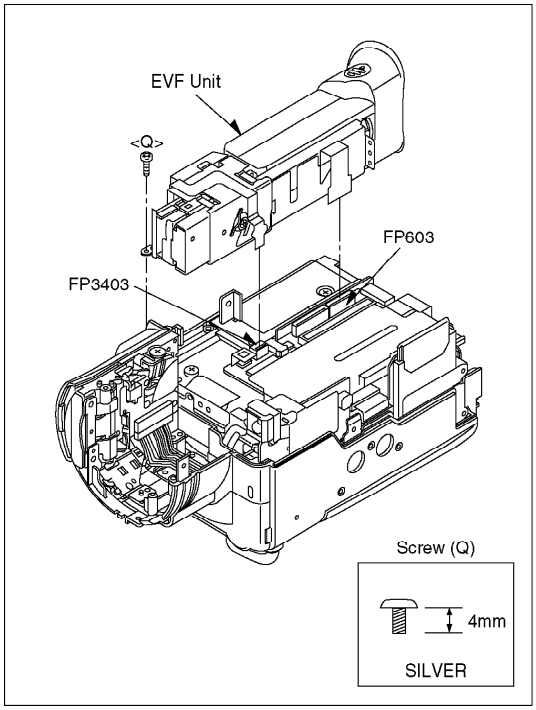


Fig. D15

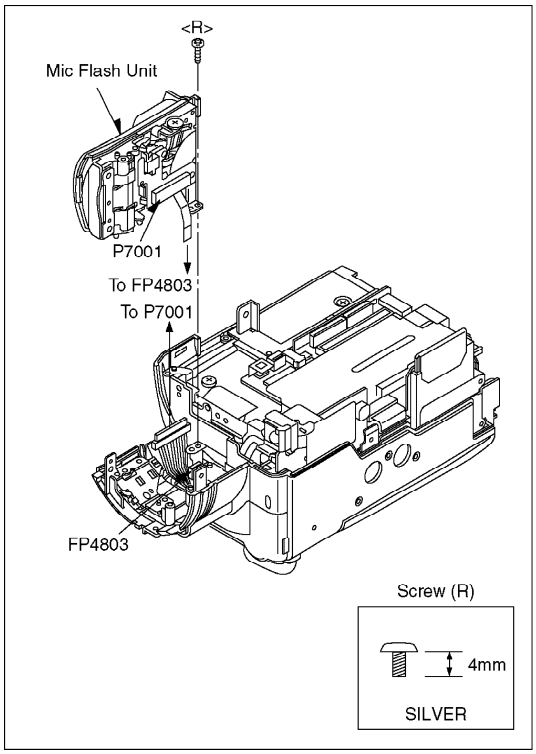


Fig. D16

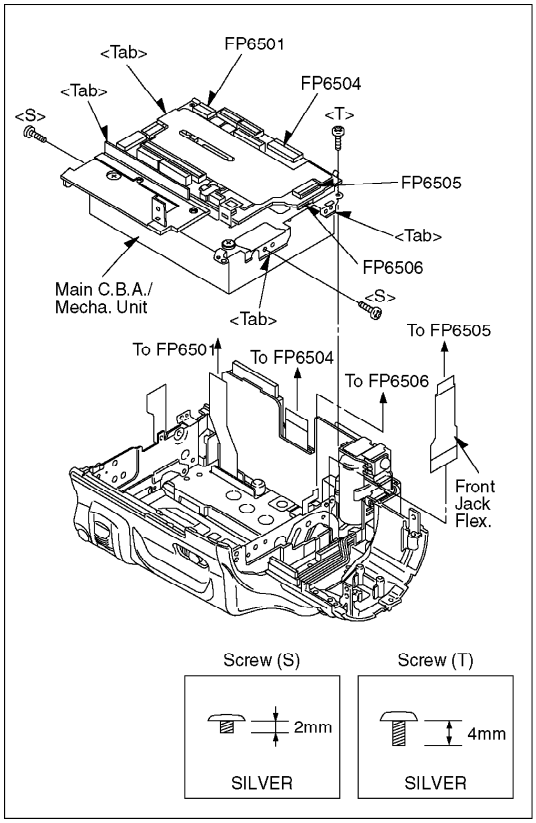


Fig. D17

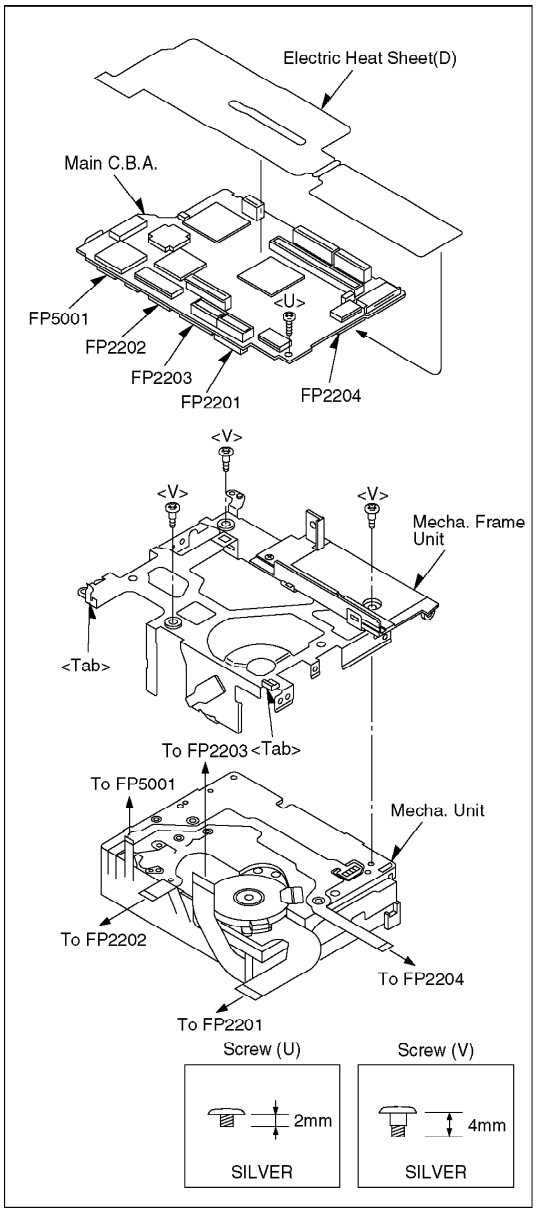

Electric Heat Sheet(D)
Main C.B.A.
FP5001
FP2202
FP2203
FP2201
<U>
FP2204
<V>
<V>
<V>
Mecha. Frame Unit
<Tab>
To FP2203 <Tab>
To FP5001
Mecha. Unit
To FP2202
To FP2204
To FP2201
Screw (U)
Screw (V)
2mm
4mm
SILVER
SILVER

Fig. D18

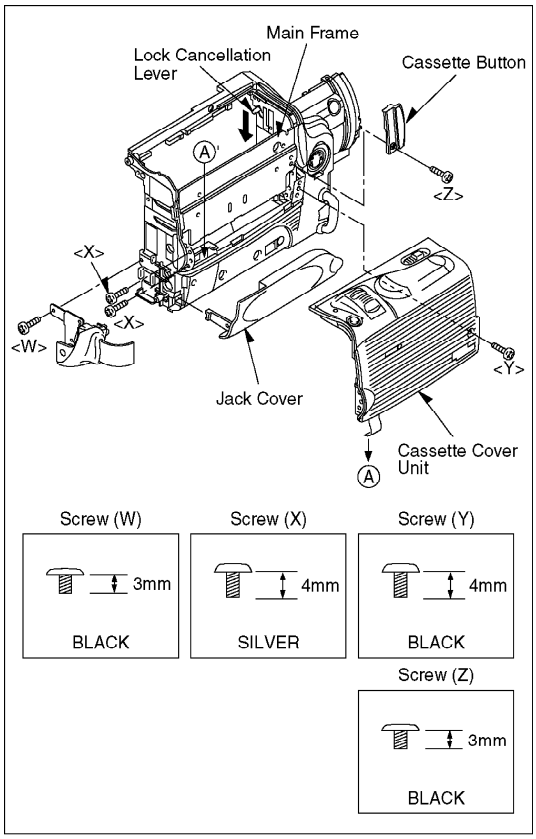


Fig. D19

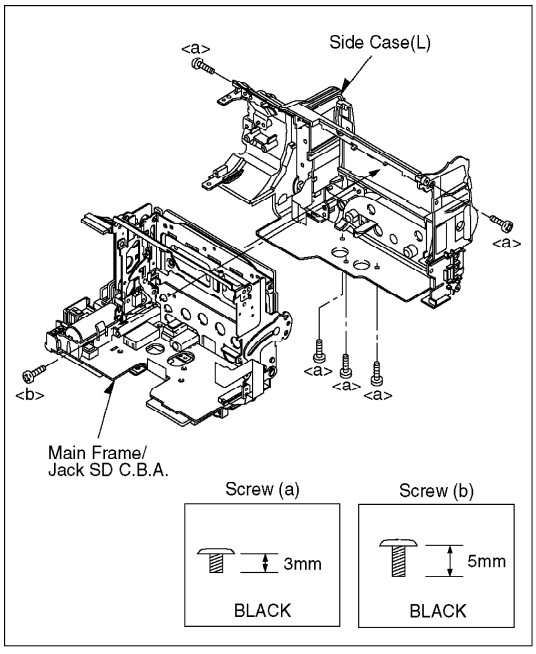
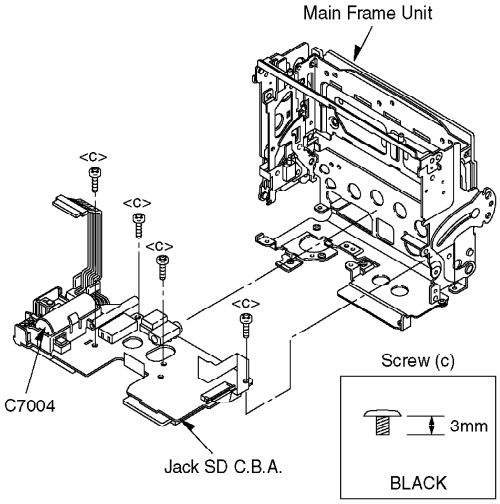


Fig. D20



CAUTION
Be sure to discharge the capacitor on Jack SD C.B.A. before disassembling.
CAUTION
Be careful of the high voltage circuit on Jack SD C.B.A. when servicing.

Method:
1.Prepare the 2 Resistors (ERG2SJ221:220 ohm/2w) for discharge.
Note:
Above 2 Resistors may be substituted with equivalent type.
2.Make short circuit using 2 Resistors between C7004(+)and C7004(-) for 3 seconds as follows.
3.After discharging, confirm that the capacitor voltage is sufficiently lowered using a voltmeter.

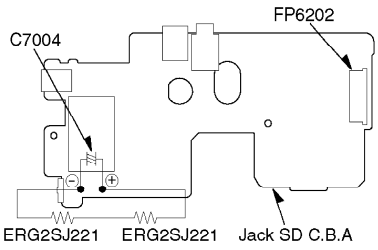


Fig. D21

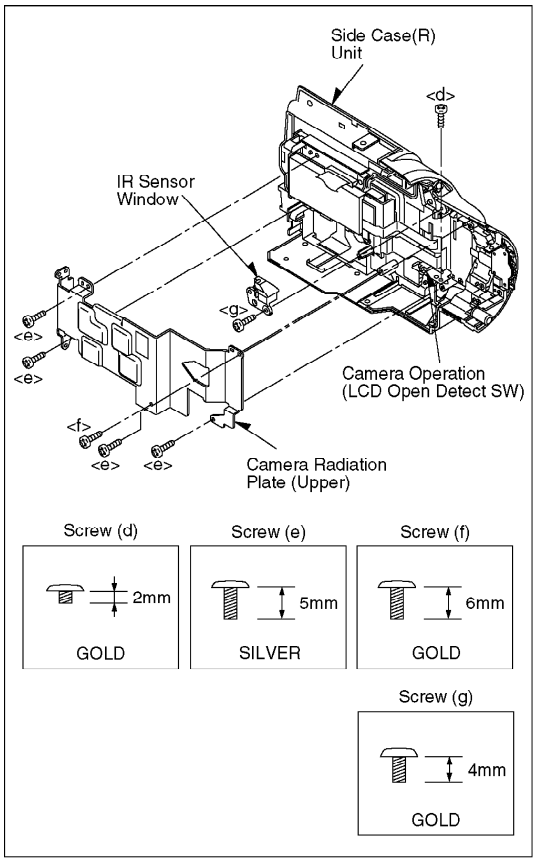


Fig. D22

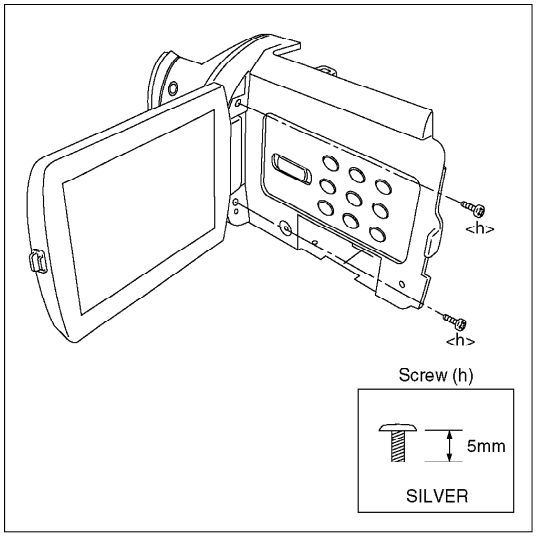


Fig. D23

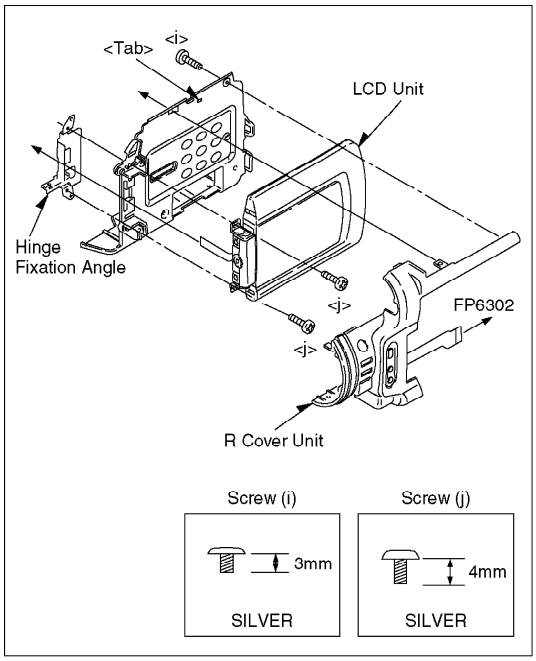

<Tab>
<i>
LCD Unit
Hinge
Fixation Angle
<j>
<j>
FP6302
R Cover Unit
Screw (i)
Screw (j)
3mm
4mm
SILVER
SILVER

Fig. D24

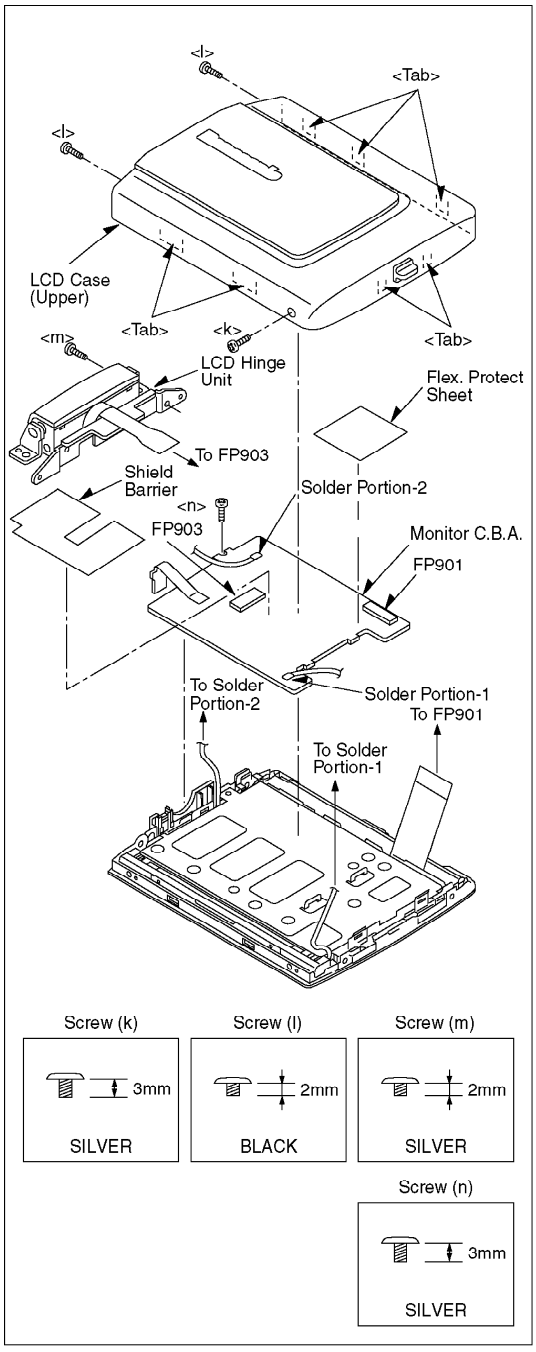

<l>
<Tab>
<l>
LCD Case
(Upper)
<Tab>
<k>
<Tab>
<m>
LCD Hinge
Unit
Flex. Protect
Sheet
To FP903
Shield
Barrier
Solder Portion-2
<n>
FP903
Monitor C.B.A.
FP901
To Solder
Portion-2
Solder Portion-1
To FP901
To Solder
Portion-1
Screw (k)
3mm
SILVER
Screw (l)
2mm
BLACK
Screw (m)
2mm
SILVER
Screw (n)
3mm
SILVER

Fig. D25

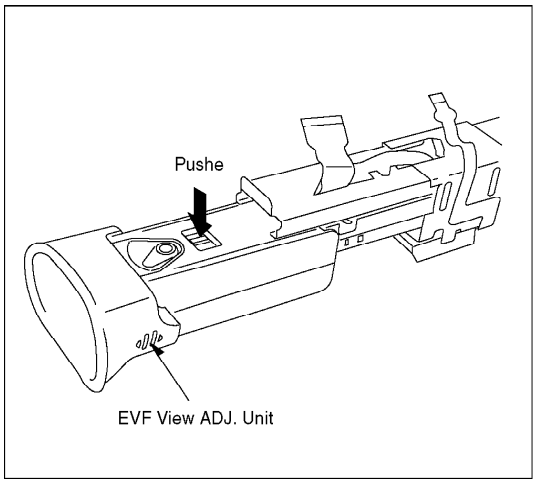


Fig. D26

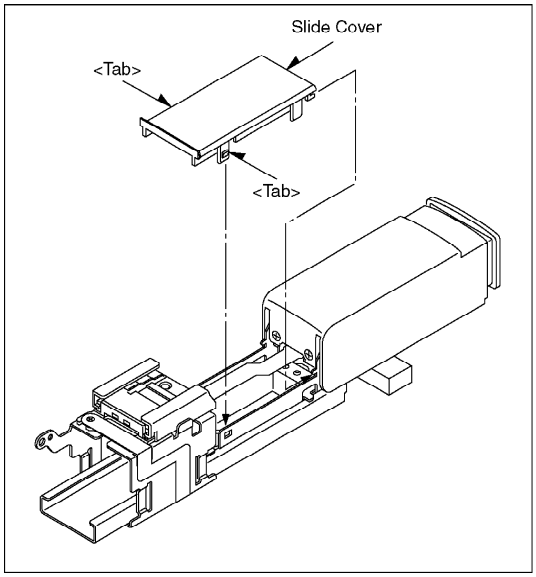


Fig. D27

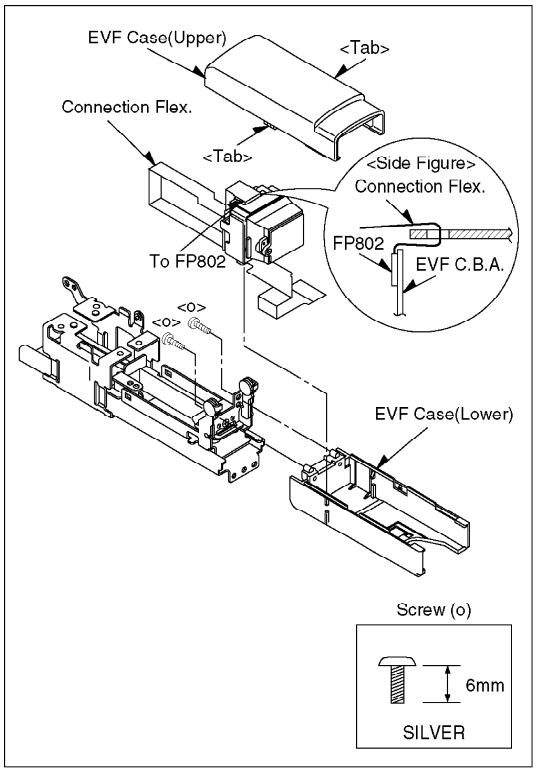
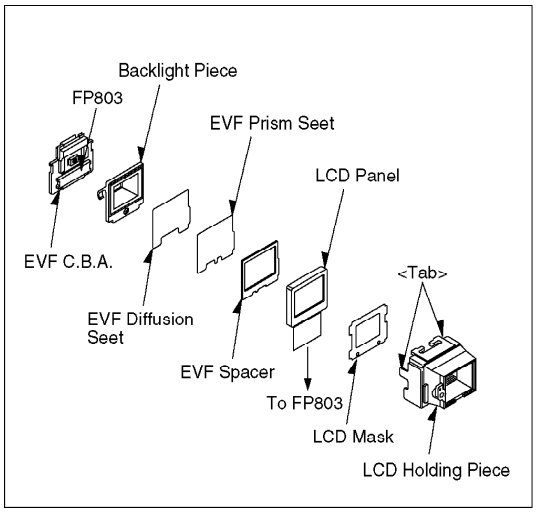


Fig. D28



8.3. DISASSEMBLY PROCEDURES OF CAMERA LENS UNIT

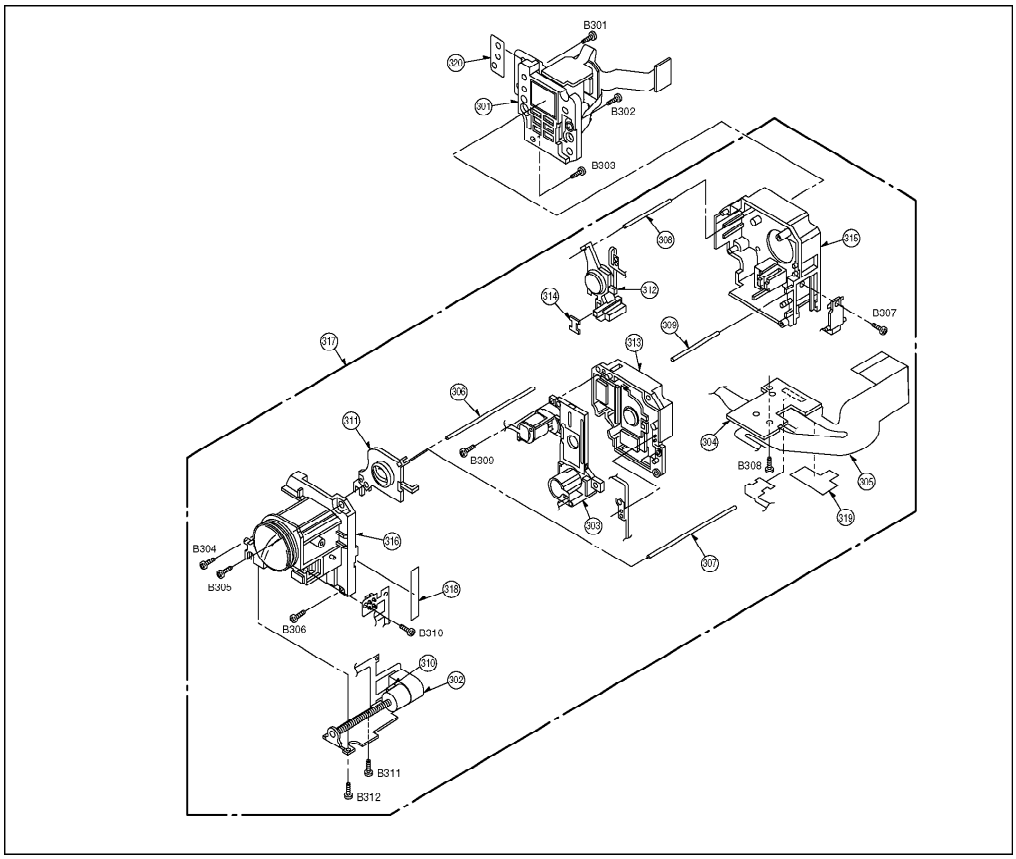
The following flowchart describes order or steps for removing the Camera lens unit and certain printed circuit boards in order to make access to the item needing service.
To reassemble the unit follow the steps in reverse order.

Fig. L1

1. Prism Unit	Ref.No.301
2. Main Frame Unit	Ref.No.316
3. 2nd Moving Frame Unit & Z Guid Pole	Ref.No.311/306/307
4. Zoom Motor Unit & ZM Terminal Base	Ref.No.320/310
5. Iris Unit	Ref.No.303
6. Lens Flex. C.B.A. & Lenz Flex.	Ref.No.304/305
7. Ois Unit & 4th Moving Frame Unit	Ref.No.312/313
8. Focus Guide Pole & Master Frange Unit	Ref.No.308/309/315

Note 1:
Each Ref-numbers are equivalent to number of Fig.L2 and Parts List.

Fig. L2



9. ABBREVIATIONS

10. WAVEFORM TABLE

11. SCHEMATIC DIAGRAMS

11.1. OVERALL SCHEMATIC DIAGRAM

11.2. INTERCONNECTION SCHEMATIC DIAGRAM

11.3. SIDE (L) SCHEMATIC DIAGRAM

11.4. CASSETTE COVER UNIT SCHEMATIC DIAGRAM

11.5. REAR OPERATION UNIT SCHEMATIC DIAGRAM

11.6. MAIN FRAME UNIT (CASSETTE DOWN FLEX. CARD) SCHEMATIC DIAGRAM

11.7. FLASH FLEX. UNIT SCHEMATIC DIAGRAM

11.8. EVF SCHEAMTIC DIAGRAM

11.9. CAMERA OPERATION FLEX.& MF VR UNIT CHEMATIC DIAGRAM

11.10. SIDE (R)& IR SENSOR SCHEMATIC DIAGRAM

11.11. PRISM UNIT SCHEMATIC DIAGRAM

11.12. MIC SCHEMATIC DIAGRAM

11.13. FRONT JACK& SUB REC SCHEMATIC DIAGRAM

11.14. JACK SD SCHEMATIC DIAGRAM

11.15. MONITOR& HALL SENSOR FLEX. SCHEMATIC DIAGRAM

12. CIRCUIT BOARD ASSEMBLIES

12.1. SIDE (L) C.B.A.

12.2. EVF C.B.A.

12.3. CAMERA OPERATION FLEX. C.B.A.

12.4. PRISM UNIT C.B.A.

12.5. SIDE (R) C.B.A.

12.6. MIC C.B.A.

12.7. SUB REC C.B.A.

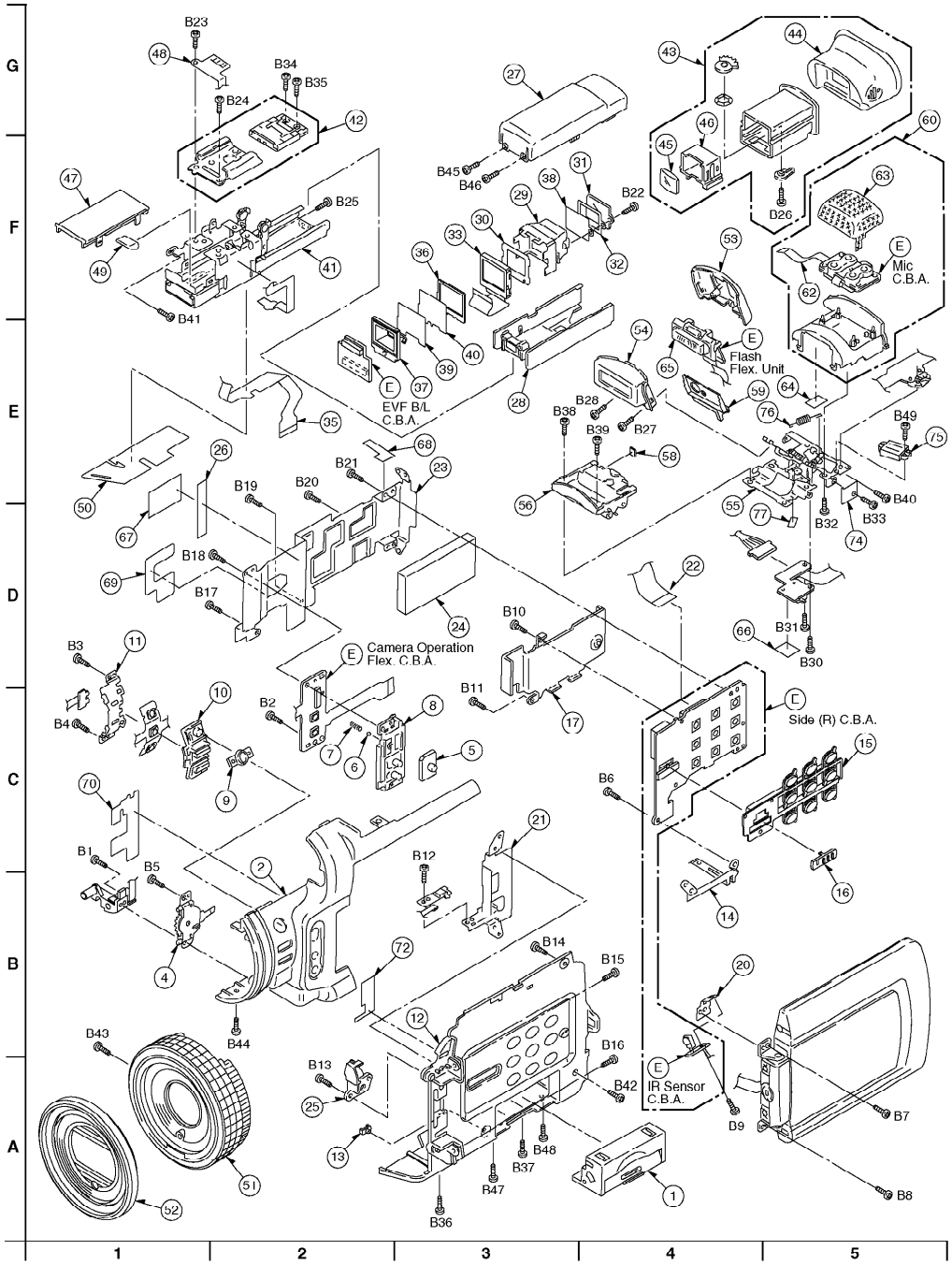
12.8. FRONT JACK C.B.A.

12.9. JACK SD C.B.A.

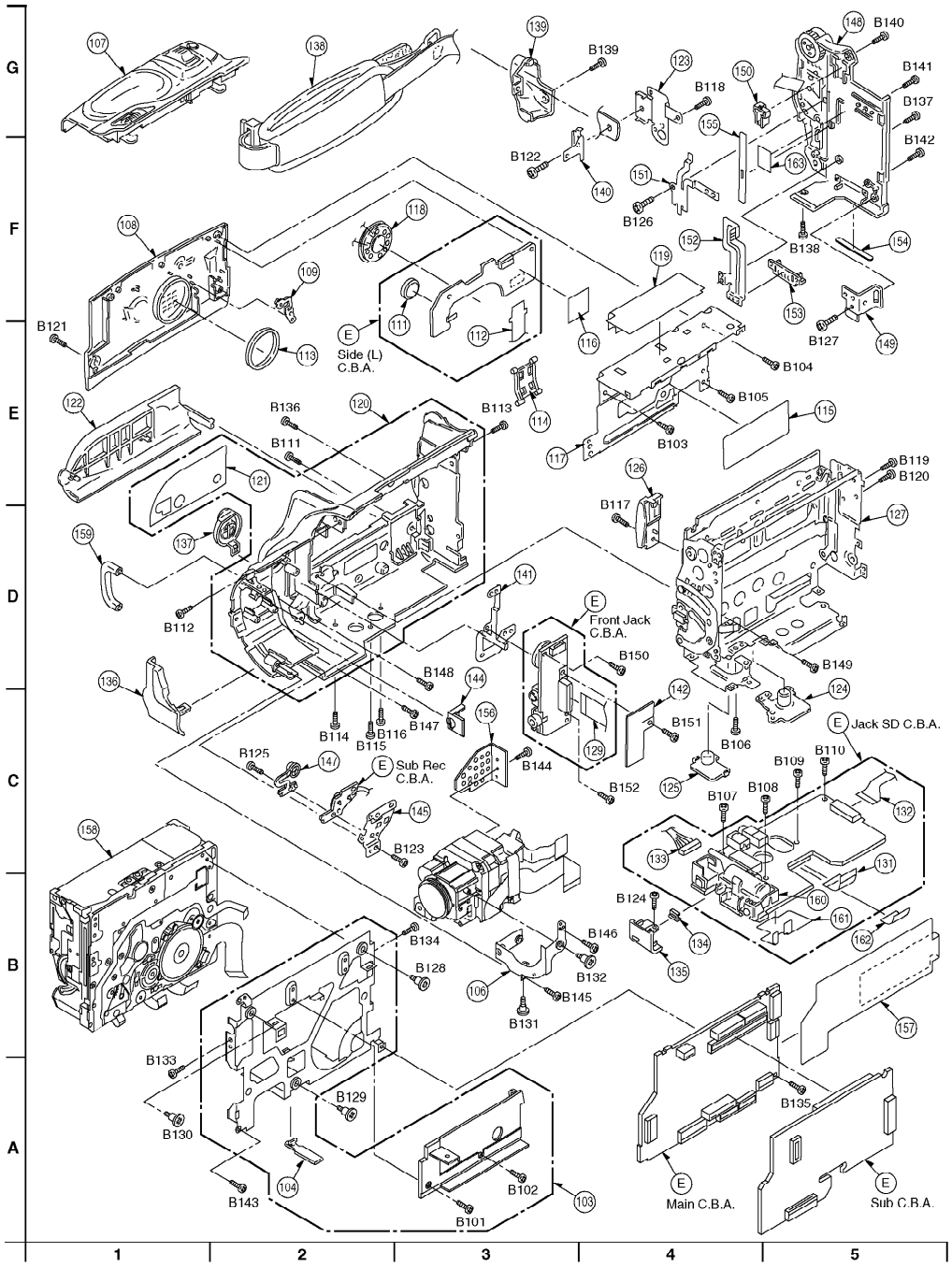
12.10. MONITOR C.B.A.

13. EXPLODED VIEWS

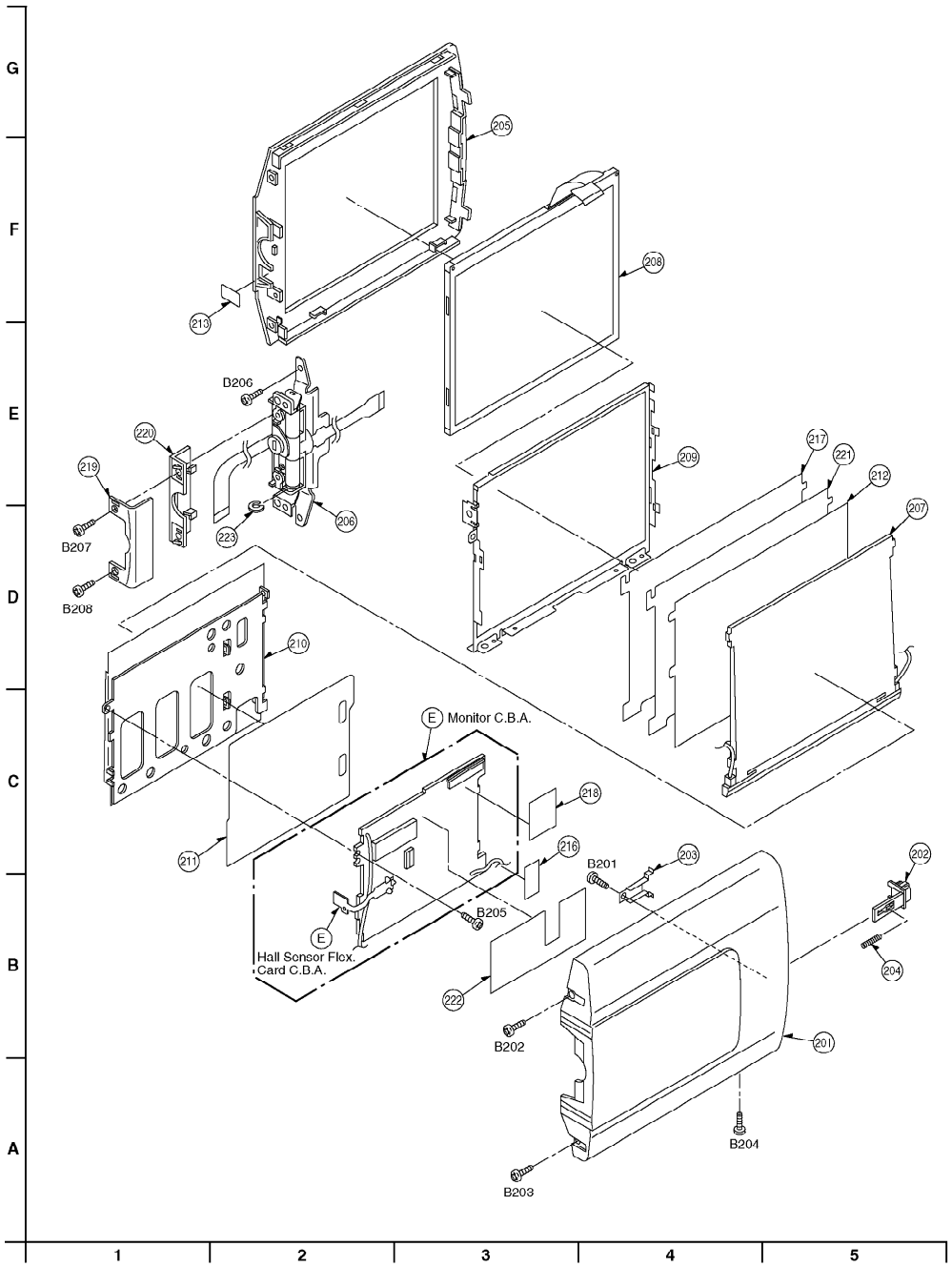
13.1. FRAME& CASING SECTION (1)



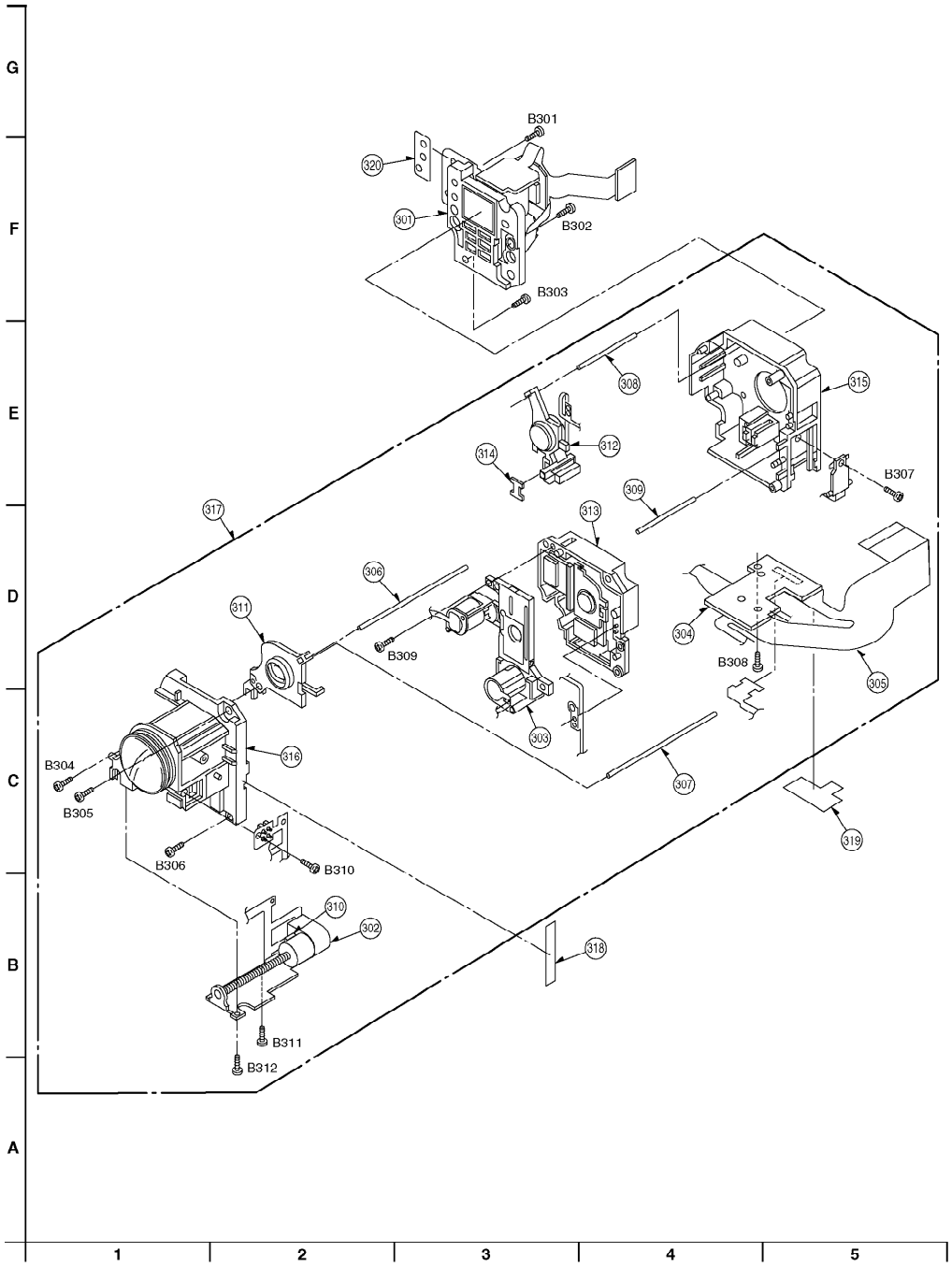
13.2. FRAME& CASING SECTION (2)



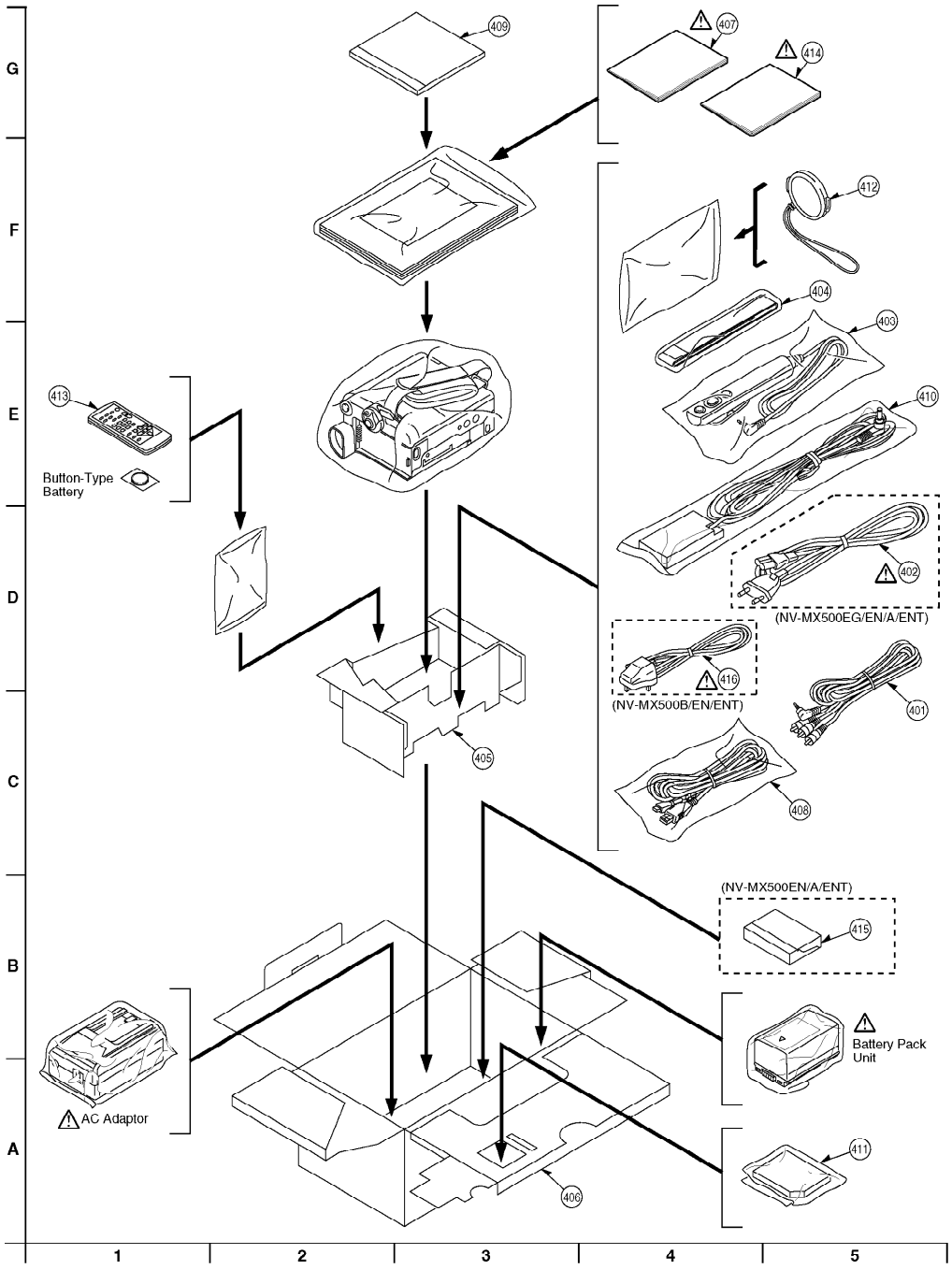
13.3. LCD SECTION



13.4. CAMERA LENS SECTION



13.5. PACKING PARTS& ACCESSORIES SECTION



14. REPLACEMENT PARTS LIST

14.1. FRAME& CASING SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
1	VYK0J41	SD/EVR U.	
2	VYK0M18	(R) COVER (1) U.	
4	N9ZZ00000161	MF VR U.	
5	VGU9156	MODE SELECT BUTTON	
6	VDB1676	HARD BALL	
7	VMB3654	COIL SPRING	
8	VGU9158	CAMERA OPERATION BUTTON (REAR)	
9	VGK2798	OIS DECORATION	
10	VGU9157	CAMERA OPERATION BUTTON (FRONT)	
11	VMP7271	CAMERA OP. BUTTON ANGLE	
12	VYK0M20	(R) BASE (1) U.	
13	VGL0849	POWER PANEL LIGHT	
14	VSC5381	HINGE EARTH PLATE	
15	VGU9264	CAMERA OPERATION BUTTON	
16	VGU9121	MODE SELECT KNOB	
17	VSC5382	CAMERA RADIATION PLATE	
20	VMP7286	IR SENSOR ANGLE	
21	VMP7272	HINGE FIXATION ANGLE	
22	VWJ1574	(R) OPERATION FLEX.	
23	VSC5392	CAMERA RADIATION PLATE (UPPER)	
24	VGQ6841	HEAT TRANSMISSION SHEET (B)	
25	VKW3066	IR SENSOR WINDOW	
26	VGQ2184	FLEX. FIXATION TAPE	
27	VKM6011	EVF CASE (UPPER)	
28	VKM5954	EVF CASE (LOWER)	
29	VGQ6790	LCD HOLDING PIECE	
30	VGQ6791	LCD MASK	
31	VGQ6753	PROTECT PANEL	
32	VGQ6854	PROTECT PANEL SHEET	
33	L5BDDXH00007	LCD PANEL	
35	VWJ1567	CONNECTION FLEX.	
36	VGQ6862	EVF SPACER	
37	VGQ6793	BACKLIGHT PIECE	
38	VGL1007	EVF POLARIZATION PLATE	
39	VGL0999	EVF DIFFUSION SHEET	
40	VGL1000	EVF PRISM SHEET (A)	
41	VXA7454	EVF SLIDE U.	
42	K1FB108H0011	SHOE TERMINAL SOCKET	
43	VYK0J39	EVF VIEW ADJ. U.	
44	VMG1451	EYE CAP	
45	VDL1220	EVF LENS	
46	VGQ6794	EVF LENS HOLDER	
47	VKF3611	SLIDE COVER	
48	VWJ1573	HOT SHOE FLEX.	
49	VGQ6846	PROTECT PIECE	
50	VMZ3284	SLIDE BARRIER	
51	VXP2198	MF U.	
52	VYQ2480	LENS HOOD U.	
53	VKM5946	FLASH CASE (UPPER)	
54	VKM5947	FLASH CASE (LOWER)	
55	VXA7453	FLASH BASE FRAME U.	
56	VKM5972	FLASH BASE COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
58	VGQ7038	FLASH BASE CUSHION	
59	VGQ6937	INSULATION PIECE	
60	VYK0J55	MIC CASE U.	
62	VWJ1580	MIC FLEX.	
63	VYQ2479	MIC NET U.	
64	VGQ5407	SD FLEX. BARRIER	
65	EFN-MVQ47	STOROBE U.	
66	VGQ6460	FIXATION TAPE	
67	VGQ7022	BARRIER (LCD FLEX. PROTECT)	
68	VGQ7020	BARRIER (EVF PROTECT)	
69	VGQ7019	BARRIER (CAMERA OPERATION FLEX.)	
70	VGQ6982	HINGE FIXATION BARRIER	
72	VGQ7021	SHEET (IR CABLE HOLD)	
74	VMA0P03	MIC NET FIXATION BOARD	
75	L9AAB4CA0006	SOLENOID	
76	VMB3689	ASSIST SPRING	
77	VGQ7047	SHEET (SPRING HOLD)	
B1	XQN16+BJ5FN	SCREW	
B2	XQN16+BJ5FN	SCREW	
B3	XQN16+BJ3	SCREW	
B4	XQN16+BJ3	SCREW	
B5	XQN16+BJ3	SCREW	
B6	XQN16+BJ4	SCREW	
B7	VHD1411	SCREW	
B8	VHD1411	SCREW	
B9	XQN16+B2	SCREW	
B10	XQN16+BJ5FN	SCREW	
B11	XQN16+BJ5FN	SCREW	
B12	XQN16+B2	SCREW	
B13	XQN16+BJ4	SCREW	
B14	XQN16+BJ35FN	SCREW	
B15	XQN16+BJ5FN	SCREW	
B16	XQN16+BJ5FN	SCREW	
B17	XQN16+BJ5FN	SCREW	
B18	XQN16+BJ6	SCREW	
B19	XQN16+BJ5FN	SCREW	
B20	XQN16+BJ5FN	SCREW	
B21	XQN16+BJ5FN	SCREW	
B22	VHD1303	SCREW	
B23	XQN2+B3FN	SCREW	
B24	XQN2+B3FN	SCREW	
B25	XQS16+AJ3	SCREW	
B26	VHD1542	SCREW	
B27	XQN16+B25FZ	SCREW	
B28	XQN16+BJ5FZ	SCREW	
B30	XQN16+B15FN	SCREW	
B31	XQN16+BJ4FZ	SCREW	
B32	XQN16+BJ4FZ	SCREW	
B33	VHD1380	SCREW	
B34	VHD1526	SCREW	
B35	VHD1526	SCREW	
B36	XQN16+B3FZ	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B37	XQN16+B3FZ	SCREW	
B38	XQN16+B5FZ	SCREW	
B39	XQN16+B5FZ	SCREW	
B40	XQN16+BJ4FN	SCREW	
B41	XQN16+BJ4FN	SCREW	
B42	VHD1444	SCREW	
B43	XQN16+B4FN	SCREW	
B44	XQN16+B4FN	SCREW	
B45	VHD1377	SCREW	
B46	VHD1377	SCREW	
B47	XQN16+B2FZ	SCREW	
B48	XQN16+B2FZ	SCREW	
B49	VHD1285	SCREW	

14.2. FRAME& CASING SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
103	VYQ2475	MECHA. FRAME U.	
104	VGQ6635	MECHA. FLEX. HOLD PIECE	
106	VYK0J23	LENS FRAME U.	
107	VYK0L88	CASSETTE COVER (UPPER) U.	
108	VGP5826	CASSETTE COVER (SIDE)	
109	VGU9054	RESET BUTTON	
111	ML920S/F9D	LITHIUM BATTERY	
112	VWJ1548	SIDE (L) FLEX.	
113	VGQ5908	SPEAKER SHEET	
114	VGQ6571	GRIP FLEX. HOLD SHEET	
115	VGQ6572	BATTERY PROTECT SHEET	
116	VGQ6580	SIDE (L) INSULATION SHEET	
117	VMP7107	CASSETTE PLATE	
118	L0AA02A00036	SPEAKER U.	
119	VGQ6871	CASSETTE COVER SHEET	
120	VYK0M15	SIDE CASE (L) (1) U.	
121	VGH4630	JACK NAME PLATE	
122	VKF3523	JACK COVER (L)	
123	VMP7143	GRIP BELT ANGLE (REAR)	
124	VMP7099	TRIPOD PLATE	
125	VGQ6638	TRIPOD PIECE	
126	VGU9098	CASSETTE BUTTON	
127	VYQ2485	MAIN FRAME U.	
129	VWJ1569	FRONT JACK FLEX.	
131	VWJ1570	JACK SD FLEX.	
132	VWJ1572	SUB FLEX.	
133	VEE0U58	FLASH WIRE U.	
134	VGL1005	TALLY PANEL LIGHT	
135	VGQ6820	TALLY PANEL LIGHT HOLDER	
136	VKF3594	FRONT JACK COVER	
137	VKF3595	S JACK COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
138	VYC0889	GRIP BELT	
139	VGQ6815	GRIP BELT REAR PIECE	
140	VMP7142	GRIP BELT FIXATION ANGLE	
141	VSC5380	S JACK EARTH PLATE	
142	VGQ6922	S JACK BARRIER	
144	VGQ6935	JACK PIECE	
145	VMP7267	SUB REC BUTTON ANGLE	
147	VGU9155	SUB REC BUTTON	
148	N9ZZ00000156	REAR OPERATION U.	
149	VMP7270	SHOULDER BELT ANGLE	
150	VGU9123	BATTERY LOCK BUTTON	
151	VMC1804	BATTERY LOCK SPRING	
152	VWJ1568	BUS FLEX.	
153	K4ZZ04000032	BATTERY CATCHER	
154	VKA0340	SLIDE STOP RUBBER	
155	VGQ6868	REAR OPERATION PROTECT SHEET	
156	VSC5383	LENS RADIATION PLATE	
157	VGQ6910	HEAT TRANSMISSION SHEET (D)	
158	VXY1752	MECHA. U.	
159	VGQ6966	GRIP BELT FRONT PIECE	
160	VGQ6787	CAPACITOR HOLDER	
161	VMZ3301	CAPACITOR BARRIER	
162	VGQ6460	FIXATION TAPE	
163	VGQ5356	LCD CUSHION	
B101	XQN16+B2FN	SCREW	
B102	XQN16+B2FN	SCREW	
B103	XQN16+BJ3FZ	SCREW	
B104	XQN16+BJ3FZ	SCREW	
B105	XQS16+AJ4FN	SCREW	
B106	XQN16+B2FN	SCREW	
B107	XQN16+B3FZ	SCREW	
B108	XQN16+B3FZ	SCREW	
B109	XQN16+B3FZ	SCREW	
B110	XQN16+B3FZ	SCREW	
B111	XQN16+B3FZ	SCREW	
B112	XQN16+B3FZ	SCREW	
B113	XQN16+B3FZ	SCREW	
B114	XQN16+B3FZ	SCREW	
B115	XQN16+B3FZ	SCREW	
B116	XQN16+B3FZ	SCREW	
B117	XQN16+B3FZ	SCREW	
B118	XQN16+B3FZ	SCREW	
B119	VHD1533	SCREW	
B120	VHD1533	SCREW	
B121	VHD1532	SCREW	
B122	VHD1548	SCREW	
B123	XQN16+BJ3	SCREW	
B124	XQN16+BJ5	SCREW	
B125	XQN16+B3	SCREW	
B126	XQN16+BJ3	SCREW	
B127	XQN16+BJ3	SCREW	
B128	VHD1133	SCREW	
B129	VHD1133	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B130	VHD1133	SCREW	
B131	VHD1353	SCREW	
B132	VHD1353	SCREW	
B133	XQN16+B2FN	SCREW	
B134	XQN16+B2FN	SCREW	
B135	XQN16+B2FN	SCREW	
B136	XQN16+B2FN	SCREW	
B137	XQN16+B5FZ	SCREW	
B138	XQN16+B3FZ	SCREW	
B139	XQN16+BJ6FZ	SCREW	
B140	XQN16+BJ6FZ	SCREW	
B141	XQN16+BJ6FZ	SCREW	
B142	XQN16+BJ6FZ	SCREW	
B143	XQN16+BJ4FN	SCREW	
B144	XQN16+BJ4FN	SCREW	
B145	XQN16+BJ4FN	SCREW	
B146	XQN16+BJ4FN	SCREW	
B147	XQN16+BJ5FZ	SCREW	
B148	XQN16+BJ5FZ	SCREW	
B149	XQN16+BJ5FZ	SCREW	
B150	XQN16+BJ6FZ	SCREW	
B151	XQN16+BJ6FZ	SCREW	
B152	XQN16+BJ6FZ	SCREW	

14.3. LCD SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
201	VYK0M23	LCD CASE UPPER (1) U.	
202	VGQ6789	LCD LOCK PIECE	
203	VMP6292	LOCK PIECE HOLD ANGLE	
204	VMB3217	LCD LOCK SPRING	
205	VKM5952	LCD CASE LOWER	
206	VXD0372	LCD HINGE U.	
207	KBLUMJ151VM	BACKLIGHT U.	
208	L5BDDYM00004	LCD PANEL	
209	VMP6928	LCD FRAME	
210	VMP6572	C.B.A. HOLD ANGLE	
211	VGQ5844	LCD BARRIER	
212	VGL0916	DIFFUSION SHEET	
213	VGQ4758	PROTECT SHEET	
216	VGQ5507	FLEX. FIXATION TAPE	
217	VGL1006	POLARIZATION SHEET	
218	VGQ6989	FLEX. PROTECT TAPE	
219	VGQ6797	HINGE COVER UPPER	
220	VGQ6976	HINGE COVER LOWER	
221	VGL1017	PRISM SHEET	
222	VGQ6968	SHIELD BARRIER	
223	VGQ7023	LDC SPACER	

Ref. No.	Part No.	Part Name & Description	Remarks
B201	XQS16+AJ3	SCREW	
B202	VHD1343	SCREW	
B203	VHD1343	SCREW	
B204	XQN16+B25FN	SCREW	
B205	XQN16+B25FN	SCREW	
B206	XQN16+B2FN	SCREW	
B207	VHD1451	SCREW	
B208	VHD1451	SCREW	

14.4. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
301	VXQ1126	PRISM U.	
302	08S1E13F6NH2	ZOOM MOTOR U.	
303	L9ZZ00000196	IRIS U.	
304	VEK9772	LENS FLEX. C.B.A.	
305	VJB20957	LENS FLEX.	
306	VMS6837	Z GUIDE POLE	
307	VMS6837	Z GUIDE POLE	
308	VMS6838	FOCUS GUIDE POLE	
309	VMS6838	FOCUS GUIDE POLE	
310	VMX3055	ZM TERMINAL BASE	
311	VXP2066	2ND MOVING FRAME U.	
312	VXP2068	4TH MOVING FRAME U.	
313	VXQ0975	OIS U.	
314	VMA9961	SIDE YOKE	
315	VXQ1077	MASTER FLANGE U.	
316	VXQ1127	MAIN FRAME U.	
317	VXW0547	LENS U.	
318	VGQ2184	TAPE	
319	VGQ7010	LENS FLEX. BARRIER	
320	VMA0J39	SPACER PLATE	
B301	XQN16+CJ5	SCREW	
B302	XQN16+CJ5	SCREW	
B303	XQN16+CJ5	SCREW	
B304	XQN16+CJ8	SCREW	
B305	XQN16+CJ8	SCREW	
B306	XQN16+CJ8	SCREW	
B307	XQN16+CJ5	SCREW	
B308	XQN16+CJ5	SCREW	
B309	XQN16+CJ5	SCREW	
B310	XQN16+CJ5	SCREW	
B311	VHD1508	SCREW	
B312	VHD1508	SCREW	

14.5. PACKING PARTS& ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
401	K2KC4CB00002	AV CABLE	
402	VJA0664	AC CABLE	NV-MX5000EG/EN/ENT ⚠ K2CR2DA00004
402	VJA0754	AC CABLE	NV-MX5000A ⚠ K2CJ2DA00002
403	N2QCAD000002	UNIVERSAL REMOTE CONTROLLER	
404	VFC3506	SHOULDER BELT	
405	VPN5906	CUSHION	
406	VPG0R27	PACKING	NV-MX5000EG
406	VPG0R28	PACKING	NV-MX5000B
406	VPG0R29	PACKING	NV-MX5000EN/A/ENT
407	VQT0A65	OPERATING INSTRUCTIONS (GERMAN,FRENCH)	NV-MX5000EG ⚠
407	VQT0A66	OPERATING INSTRUCTIONS (ITALIAN,DUTCH)	NV-MX5000EG ⚠
407	VQT0A67	OPERATING INSTRUCTIONS (PORTUGUESE,SPANISH)	NV-MX5000EG ⚠
407	VQT0A68	OPERATING INSTRUCTIONS (SWEDISH,DANISH)	NV-MX5000EG ⚠
407	VQT0A69	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX5000B ⚠
407	VQT0A70	OPERATING INSTRUCTIONS (CHINESE, ENGLISH)	NV-MX5000EN/ENT ⚠
407	VQT0A71	OPERATING INSTRUCTIONS (RUSSIAN,ARABIC)	NV-MX5000EN/ENT ⚠
407	VQT0A72	OPERATING INSTRUCTIONS (ENGLISH)	NV-MX5000A ⚠
408	K2KY8CD00002	USB CABLE	
409	VFF0161-S	CD-ROM FOR PC KIT	
410	VEK8925	DC CABLE	K2GJ2DZ00011
411	RP-SD016BVE0	SD CARD	
412	VYK0J50	HOOD CAP U.	
413	N2QAEC000003	REMOTE CONTROLLER	
414	VQT0A73	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (ENGLISH)	NV-MX5000B/A ⚠
414	VQT0A74	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (GERMAN, FRENCH, ITALIAN, DUTCH)	NV-MX5000EG ⚠
414	VQT0A75	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (PORTUGUESE, SPANISH, SWEDISH, DANISH)	NV-MX5000EG ⚠
414	VQT0A76	OPERATING INSTRUCTIONS FOR PC KIT (CD-ROM) (CHINESE, ENGLISH, RUSSIAN, ARABIC)	NV-MX5000EN/ENT ⚠
415	VFK1451	HEAD CLEANER	NV-MX5000EN/A/ENT

Ref. No.	Part No.	Part Name & Description	Remarks
416	VJA0940	AC CABLE	NV-MX5000B/EN/ENT ⚠ K2CT3DA00003

14.6. ELECTRICAL REPLACEMENT PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicates the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP03G20B	MAIN C.B.A.	(RTL)
■	VEP23569B	SUB C.B.A.	(RTL)
■	VEP06F01A	SIDE (L) C.B.A.	(RTL)
■	VEP04812A	FRONT JACK C.B.A.	(RTL)
■	VEP04813B	JACK SD C.B.A.	(RTL)
■	VEP000Y1A	SUB REC C.B.A.	(RTL)
■	VEP20956A	CAMERA OPERATION C.B.A.	(RTL)
■	VEP06E88A	SIDE (R) C.B.A.	(RTL) INCLUDING THE IR SENSOR C.B.A.
■	VEP22330A	IR SENSOR C.B.A.	(RTL) INCLUDED IN SIDE (R) C.B.A.
■	VEP26276B	MONITOR C.B.A.	(RTL) INCLUDING THE HOLE SENSOR FLEX. CARD
■	VEP06E80A	HOLE SENSOR FLEX. CARD	(RTL) INCLUDED IN MONITOR C.B.A.
■	VEP28296B	EVF B/L C.B.A.	(RTL)
■	VEP07A53A	FLASH FLEX. CARD UNIT	(RTL)
■	VEP06F01A	SIDE (L) C.B.A.	(RTL)
B6101	ML920S/F9D	LITHIUM BATTERY	
C6304	ECJ1ZB1H103K	C.CAPACITOR CH 35V 0.01U	
D6302	MA2SD2400L	DIODE	
FP6301	K1MN21B00036	CONNECTOR 21P	
FP6302	VJS4298B008	CONNECTOR (FEMALE) 8P	K1MN08B00048
R6301	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	
R6302	ERJ3GEYJ102A	M.RESISTOR CH 1/16W 1K	
R6303	ERJ3GEYJ102A	M.RESISTOR CH 1/16W 1K	
S6302	VSP1102	SWITCH	K0H1BA000260
VZ6301	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
■	VEP04812A	FRONT JACK C.B.A.	(RTL)
C4001	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	
C4002	ECJ0EB1E472K	C.CAPACITOR CH 25V 4700P	

Ref. No.	Part No.	Part Name & Description	Remarks
C4901	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4902	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C4903	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4905	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4906	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4907	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4908	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4910	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C4912	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C4925	F3F0J4760002	TANTALUM CAPACITOR	
FP4803	K1MN08A00023	CONNECTOR 8P	
FP4804	K1MN28A00025	CONNECTOR 28P	
JK3001	VJJ0670	S-JACK	K2HZ104A0002
JK4001	K2HC107B0002	JACK	
JK4901	VJJ0414	MIC JACK	K2HC105E0003
LB3961	J0JBC0000042	INDUCTOR	
LB3963	J0JBC0000042	INDUCTOR	
LB4001	J0JBC0000042	INDUCTOR	
LB4003	J0JAC0000014	FILTER	J0JAC0000016
LB4005	J0JAC0000014	FILTER	J0JAC0000016
LB4006	J0JAC0000014	FILTER	J0JAC0000016
LB4007	J0JAC0000014	FILTER	J0JAC0000016
LB4008	J0JAC0000014	FILTER	J0JAC0000016
LB4905	J0JAC0000026	FILTER	
LB4906	J0JAC0000026	FILTER	
LB4907	J0JHC0000032	FILTER	
Q4901	2SC4116GR	TRANSISTOR	
Q4902	2SA1586	TRANSISTOR	
Q4903	2SC4116GR	TRANSISTOR	
Q4904	2SA1586	TRANSISTOR	
Q4905	B1ABCF000077	TRANSISTOR	
Q4906	B1ABCF000077	TRANSISTOR	
Q4907	B1ABCF000077	TRANSISTOR	
R3960	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3961	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4001	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R4002	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R4003	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R4901	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4903	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R4904	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R4905	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X
R4906	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4907	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4908	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4909	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4910	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4911	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	
R4912	ERJ2GEJ471X	M.RESISTOR CH 1/16W 470	ERJ2RMJ471X

Ref. No.	Part No.	Part Name & Description	Remarks
R4913	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	
R4914	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	
R4915	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	
R4916	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R4917	ERJ2GEJ562X	M.RESISTOR CH 1/16W 5.6K	
R4918	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	
R4919	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R4920	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R4922	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4924	ERJ2GEJ682X	M.RESISTOR CH 1/16W 6.8K	ERJ2RMJ682X
R4925	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4926	VRE0071E104	M.RESISTOR 100K	D0HB104ZA004
R4929	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R4930	VRE0071E104	M.RESISTOR 100K	D0HB104ZA004
VZ3952	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ4001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
VZ4002	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
VZ6401	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
VZ6402	D4ED1270A008	TRANSIENT/SURGE ABSORBER	
■	VEP04813B	JACK SD C.B.A.	(RTL)
C451	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C453	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C455	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C456	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C458	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C459	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C460	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C461	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C462	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C464	ECUX1E222KBQ	C.CAPACITOR CH 25V 2200P	
C465	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C467	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C468	ECUX1E471KBQ	C.CAPACITOR CH 25V 470P	
C470	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C471	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C472	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C488	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C489	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C2502	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2503	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2504	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2505	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2506	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C2507	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2508	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C2509	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C2510	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C2511	ECST0JY106R	T.CAPACITOR CH 6.3V 10U	
C3901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C3902	F1J0J475A008	C.CAPACITOR 6.3V 4.7U	
C3903	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C3904	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C3905	ECUX1H050CCQ	C.CAPACITOR CH 50V 5P	
C6401	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C6402	ECST0JY226ZR	T.CAPACITOR CH 6.3V 22U	F3F0J226A007
C7001	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C7002	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	ECJ0XB1E102K
C7003	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7004	F2AZZ7500004	ELECTROLYTIC CAPACITOR	
C7005	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C7006	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C7007	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7008	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C7009	ECUX1C223KBQ	C.CAPACITOR CH 16V 0.022U	
C7010	F1J1C105A091	C.CAPACITOR 16V 1U	
C7011	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C7012	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	
C7013	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	
C7016	ECUM1A106KBM	C.CAPACITOR CH 10V 10U	
C7018	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
D2501	MA2S728	DIODE	
D6801	B3AAA0000591	LED	
D7003	B0ECKT000001	DIODE	
D7004	MA5Z300-L	DIODE	
FP6201	K1MN39B00004	CONNECTOR 39P	
FP6202	VJS3320D020	CONNECTOR (FEMALE) 20P	K1MN20B00037
HS3401	K1NA09E00027	CONNECTOR 9P	
IC451	C0JBAS000065	IC	
IC452	NJM3403AV	IC	C0ABCA000041
IC453	NJM2143R	IC	C0ABAA000045
IC481	L2ES00000005	IC	
IC2501	C0ZBZ0000540	IC	
IC2502	C0CBCBC00037	IC	
IC7001	C0JBAA000099	LOGIC IC	
IC7002	C0BBAZ000003	IC	
IC7003	B1JBLP000004	TRANSISTOR	
IC7004	C0DBZGZ00020	IC	
IR6401	PNA4618M11VT	IR RECEIVER	
JK2501	VJJ0580	JACK (4P)	
JK2502	K2HZ108B0004	8-PIN JACK	
JK3801	K2YZ04000016	JACK	
L451	VLQ0807K100	COIL 10UH	G1C100K00024
L452	VLQ0807K100	COIL 10UH	G1C100K00024
L480	VLQ0807K100	COIL 10UH	G1C100K00024
L2501	G1C4R7M00016	CHIP INDUCTOR 4.7UH	
L7001	G1C560MA0024	CHIP INDUCTOR 56UH	
L7002	G1C4R7M00016	CHIP INDUCTOR 4.7UH	

Ref. No.	Part No.	Part Name & Description	Remarks
LB2501	J0JAC0000014	FILTER	J0JAC0000016
LB2502	J0JAC0000014	FILTER	J0JAC0000016
LB2503	VLF1143A102	COIL 1000UH	J0JBC0000026
LB2504	VLF1143A102	COIL 1000UH	J0JBC0000026
LB2505	J0JAC0000014	FILTER	J0JAC0000016
LB2506	J0JHC0000032	FILTER	
LB2507	J0JAC0000014	FILTER	J0JAC0000016
LB2508	J0JAC0000014	FILTER	J0JAC0000016
LB2509	J0JAC0000014	FILTER	J0JAC0000016
P7002	K1KA09B00093	CONNECTOR 9P	
Q7001	B1BDDG000001	TRANSISTOR	B1BDDG000005
Q7002	2SB1462-R	TRANSISTOR	2SB14620R
Q7003	B1ABBE000002	TRANSISTOR	
Q7004	2SC4627J0L	TRANSISTOR	
Q7005	2SB798A	TRANSISTOR	B1BDBD000002
QR7001	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7002	B1GBBEMM0001	TRANSISTOR-RESISTOR	
QR7003	B1GDBEHH0001	TRANSISTOR-RESISTOR	
QR7005	B1GBCFGJ0007	TRANSISTOR-RESISTOR	
QR7006	B1GDBEHH0001	TRANSISTOR-RESISTOR	
QR7007	UN9212	TRANSISTOR-RESISTOR	UNR9212
R452	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R453	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R454	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R455	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R456	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R457	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R458	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R459	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R460	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R461	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R462	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R463	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R464	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R465	ERJ2GEJ474X	M.RESISTOR CH 1/16W 470K	ERJ2RMJ474X
R466	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	
R467	ERJ2GEJ274X	M.RESISTOR CH 1/16W 270K	
R469	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R470	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R2507	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2512	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2515	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2516	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2517	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R2518	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R2519	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R2520	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R3901	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R3902	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R3908	ERJ2GEJ331X	M.RESISTOR CH 1/16W 330	ERJ2RMJ331X

Ref. No.	Part No.	Part Name & Description	Remarks
R3909	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3910	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3911	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R3912	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R3913	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R3914	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
R6402	ERJ3GEYJ470V	M.RESISTOR CH 1/16W 47	
R6801	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R7001	ERJ6GEYJ330V	M.RESISTOR CH 1/10W 33	
R7002	ERJ2GEJ393X	M.RESISTOR CH 1/16W 39K	ERJ2RMJ393X
R7003	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	
R7004	ERJ2GEJ822X	M.RESISTOR CH 1/16W 8.2K	ERJ2RMJ822X
R7005	ERJ2GEJ334X	M.RESISTOR CH 1/16W 330K	ERJ2RMJ334X
R7006	ERJ2GEJ564X	M.RESISTOR CH 1/16W 560K	ERJ2RMJ564X
R7007	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R7008	ERJ2GEJ330X	M.RESISTOR CH 1/16W 33	
R7009	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R7010	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R7011	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R7012	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R7013	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7014	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R7015	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R7016	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	
R7017	ERJ2GEJ332X	M.RESISTOR CH 1/16W 3.3K	ERJ2RMJ332X
R7018	ERJ2GEJ681X	M.RESISTOR CH 1/16W 680	ERJ2RMJ681X
R7019	ERJ2GEJ220X	M.RESISTOR CH 1/16W 22	ERJ2RMJ220X
R7020	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R7023	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
R7024	ERJ2GEJ472X	M.RESISTOR CH 1/16W 4.7K	ERJ2RMJ472X
T7001	G5DYA0000033	SWITCHING TRANSFORMER	G5DYA0000032
VZ2501	D4ED1120A002	TRANSIENT/SURGE ABSORBER	
VZ7001	VRT0158	TRANSIENT/SURGE ABSORBER	D4ED12710002
■	VEP000Y1A	SUB REC C.B.A.	(RTL)
S7002	VMG0763	PHOTO SHOT RUBBER SW	
■	VEP20956A	CAMERA OPERATION C.B.A.	(RTL)
FP6501	K1MN05B00048	CONNECTOR 5P	K1MN05B00049
Q7005	PNA1101LW	PHOTO TRANSISTOR	
S6501	K0L1BA000014	SWITCH	
S6502	EVQPLPA08	SWITCH	
S6503	EVQPLPA08	SWITCH	
S6504	EVQPLPA08	SWITCH	
S6505	EVQPLPA08	SWITCH	
S6506	VSS0549	SWITCH	K0D113B00029
S6507	EVQPLPA08	SWITCH	

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP06E88A	SIDE (R) C.B.A.	(RTL)
C480	ECST0GY226R	T.CAPACITOR CH 4V 22U	
C481	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C491	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C492	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C493	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	
D491	MA132WA	DIODE	MA3S132D
D6101	B3AAB0000129	LED	
D6102	MA3S781D0L	DIODE	
D6103	B0JDAD000001	DIODE	
D6104	B0JDAD000001	DIODE	
D6105	B0JDAD000001	DIODE	
D6106	MA3S781D0L	DIODE	
D6802	B3GA00000001	PHOTO DIODE	
FP6101	VJS3498A026	CONNECTOR (FEMALE) 26P	K1MN26A00027
FP6102	VJS3320D018	CONNECTOR (FEMALE) 18P	K1MN18B00037
IC480	L2ES00000006	IC	
L481	VLQ0807K100	COIL 10UH	G1C100K00024
Q491	2SD1030	TRANSISTOR	
Q492	2SD1819A-R	TRANSISTOR	2SD1819AR
R491	ERJ3GEYJ225V	M.RESISTOR CH 1/16W 2.2M	
R492	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	D0GB334JA002
R493	ERJ3GEYJ472A	M.RESISTOR CH 1/16W 4.7K	
R494	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R495	ERJ3GEYJ106V	M.RESISTOR CH 1/16W 10M	
R496	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	
S6101	VSS0533	SLIDE SWITCH	K0D112A00116
S6105	K0H1BA000436	SWITCH	
S6106	K0H1BA000436	SWITCH	
S6107	K0H1BA000436	SWITCH	
S6108	K0H1BA000436	SWITCH	
S6109	K0H1BA000436	SWITCH	
S6110	K0H1BA000436	SWITCH	
S6111	K0H1BA000436	SWITCH	
S6112	K0H1BA000436	SWITCH	
S6401	K0H1BA000436	SWITCH	
■	VEP26276B	MONITOR C.B.A.	(RTL)
C901	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C902	ECST0GY476Z	T.CAPACITOR CH 4V 47U	F3F0G476A009
C904	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C905	ECST0JY106R	T.CAPACITOR CH 6.3V 10U	
C906	F1K1C475A062	C.CAPACITOR 16V 4.7U	

Ref. No.	Part No.	Part Name & Description	Remarks
C907	ECST0JY335ZR	T.CAPACITOR CH 6.3V 3.3U	ECST0JY335R
C908	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C909	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C910	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C911	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C912	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C913	ECUX0J474KBV	C.CAPACITOR CH 6.3V 0.47U	
C914	ECJ1VC1H470G	C.CAPACITOR CH 50V 47P	
C915	ECJ1VC1H470G	C.CAPACITOR CH 50V 47P	
C916	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C917	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C918	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C919	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C920	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C921	ECUX1E102KBQ	C.CAPACITOR CH 25V 1000P	ECJ0XB1E102K
C922	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C923	ECUX1E332KBQ	C.CAPACITOR CH 25V 3300P	
C926	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	
C927	ECJ1VB0J105K	C.CAPACITOR CH 6.3V 1U	
C928	ECUE1E561KBQ	C.CAPACITOR CH 25V 560P	ECJ0EB1E561K
C931	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	
C932	ECJ0EC1H221J	C.CAPACITOR CH 50V 220P	
C933	ECJ2YB1C474K	C.CAPACITOR CH 16V 0.47U	
C934	ECJ0WB1C103K	C.CAPACITOR CH 16V 0.01U	
C935	ECUX1C682KBQ	C.CAPACITOR CH 16V 6800P	
C947	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
C949	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	
C950	F1J1C105A091	C.CAPACITOR 16V 1U	
C952	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	
D901	MA2X33800L	DIODE	
D902	MA2J11100L	DIODE	
D903	MA2J11100L	DIODE	
D905	02DZ6.2YTPH3	DIODE	B0BC6R100014
D906	1SS388	DIODE	B0JEEE000001
D907	1SS388	DIODE	B0JEEE000001
D908	MA8027-L	DIODE	MAZ80270L
D909	MA8043-M	DIODE	MAZ80430M
D910	1SS388	DIODE	B0JEEE000001
D911	MA2J11100L	DIODE	
FP901	K1MN24B00068	CONNECTOR 24P	K1MN24B00069
FP903	K1MN25B00033	CONNECTOR 25P	K1MN25B00034
IC901	C0HBA0000071	IC	
IC902	MN7L012B5MF	IC	
IC991	DN8797MS	HOLE IC	
L901	VLQ0426J3R3	COIL 3.3UH	G1C3R3J00009
L902	G1C100K00020	CHIP INDUCTOR 10UH	
L903	G1C100K00020	CHIP INDUCTOR 10UH	
L905	G1C100K00020	CHIP INDUCTOR 10UH	
L907	VLQ0426J3R3	COIL 3.3UH	G1C3R3J00009

Ref. No.	Part No.	Part Name & Description	Remarks
LB901	VLF1144A102	COIL 1000UH	
Q901	2SA1832FY	TRANSISTOR	
Q902	B1DFCG000004	TRANSISTOR	
Q903	2SA1832FY	TRANSISTOR	
Q904	2SD2216J0L	TRANSISTOR	
Q907	XP0460100L	TRANSISTOR	
Q908	XP0460100L	TRANSISTOR	
QR902	UN9214J	TRANSISTOR-RESISTOR	
QR906	UN9214J	TRANSISTOR-RESISTOR	
R901	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R902	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R903	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R904	ERJ2RHD333	M.RESISTOR CH 1/16W 33K	
R905	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	
R906	ERJ6GEY0R00V	M.RESISTOR CH 1/10W 0	D0GBR00JA017
R907	ERJ6GEYJ470V	M.RESISTOR CH 1/10W 47	
R909	ERJ2GEJ563X	M.RESISTOR CH 1/16W 56K	
R911	ERJ2GEJ561X	M.RESISTOR CH 1/16W 560	ERJ2RMJ561X
R912	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R913	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R914	ERJ2GEJ101Y	M.RESISTOR CH 1/16W 100	
R915	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R916	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R917	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R918	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R919	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R922	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R923	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R924	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	
R925	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R926	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R927	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	
R928	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R929	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R930	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R931	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R932	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R933	ERJ2GEJ333X	M.RESISTOR CH 1/16W 33K	ERJ2RMJ333X
R934	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	
R935	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R936	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R937	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R938	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
R939	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R940	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R941	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	
R942	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R943	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R944	ERJ2GEJ824	M.RESISTOR CH 1/16W 820K	
R945	ERJ2GEJ821X	M.RESISTOR CH 1/16W 820	ERJ2RMJ821X
R946	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	

Ref. No.	Part No.	Part Name & Description	Remarks
R947	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	
R948	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	
R950	ERJ2RHD273X	M.RESISTOR CH 1/16W 27K	
R951	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R952	ERJ2GEJ103Y	M.RESISTOR CH 1/16W 10K	
R953	ERJ2GEJ124	M.RESISTOR CH 1/16W 120K	
R973	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R974	ERJ8GEYJ335	M.RESISTOR CH 1/8W 3.3M	
R975	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	
R976	ERJ2RHD821	M.RESISTOR CH 1/16W 820	
R977	ERJ2GE0R00Y	M.RESISTOR CH 1/16W 0	
R978	ERJ6GEYJ335	M.RESISTOR CH 1/10W 3.3M	
R989	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	
T901	ETJ09K59AZ	CHIP TRANSFORMER	
T902	EFTU21R203	TRANSFORMER	
■	VEP28296B	EVF B/L C.B.A.	(RTL)
D801	B3AFB0000027	LED	
D803	02DZ6.2YTPH3	DIODE	B0BC6R100014
D804	MA3S13300L	DIODE	
FP802	VJS3971D021	CONNECTOR (FEMALE) 21P	K1MN21B00016
FP803	K1MN19B00048	CONNECTOR 19P	
Q801	B1ABBE000002	TRANSISTOR	
R801	ERJ3GEYJ472A	M.RESISTOR CH 1/16W 4.7K	
R804	ERJ3RED680	M.RESISTOR CH 1/16W 68	ERJ3RED680V
R805	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	
W802	ERJ3GEY0R00A	M.RESISTOR CH 1/16W 0	

15. SCHEMATIC DIAGRAM FOR PRINTING WITH A4 SIZE

	INITIAL/LOGO	ABBREVIATIONS
	BLKZ	Blanking Pulse for Zoom Encorder
	BM	Balance Modulator
	BQUIET	Bus Out Control Signal
	BUF IN/OUT	Buffer In/Out
	B-Y KB	B-Y Carrier Balance
	B-YO	B-Y Signal Out
C	C A In/Out	Pre-Aperture In/Out
	CAPSTP	Capstan Stop Flag
	C CNT	Colour Control
	C SYNC	Composite Sync Signal
	C/N	Carrier/Noise
	C0-7, C00-07	Chrominance Signal 0-7
	CAGAIN	Aperture Gain Control
	CAM	Camera
	CAM CLK	Camera Clock
	CAM RST	Camera Reset
	CAM SIOC	Camera Serial In/Out Contol
	CAM T	Camera Test
	CAM TL	Capstan Trque Limit
	CAP EC	Capstan Trque Control
	CAP P(H)	Capstan Power On (H)
	CAP R/F/S	Capstan Reverse (H)/Stop (M)/Forward (L)
	CAP SW	Capstan Power Control Switch
	CAPSTP H	Capstan Stop Flag (Stop High)
	CAPVM	Capstan Motor Current
	CAPVS	Capstan Motor Power Control Switch
	CAS	Compresion, Audio Process, Shuffling/Deshuffling
	CAS	Memory Address Strobe (Active Low)
	CASDOWN, DWN	Cassette Down (L)
	CB, CR	Chroma B, Chroma R
	CBLK	Composite Blanking Pulse
	CC	Channel Cording
	CCA	Curent Drive Control
	CCA	Current Control Amp
	CCD	Charge Coupled Devise
	CCW	Counterclockwise
	CD SP0-7	Digital Chroma
	CDS	Correlate Double Sampling Signal
	CDS1, 2	Sampling Pulse for CCD Output Signal
	CE	Chip Enable
	CE	Control Pulse Erase
	CEC	Capstan Error Code
	C-ERA(H)	Control Erase (H)
	CFEM	Chrominance Memory Signal
	CFM	Chrominance Field Memory
	CFM1-4	Chroma Field Memory Signal
	CG CLK	Character Generator Clock
	CG CLK DATA	Clock Generator Data
	CG DATA	Character Generator Data
	CGC	Chrominance Gain Control
	CGCS	Character Generator Chip Select
	CGO	Character Generator Serial Data
	CH	Charge

	INITIAL/LOGO	ABBREVIATIONS
	CH1	Channel 1 (Odd Field)
	CHR	Character
	CHR BACK	Character Back-up
	CHR MIX	Character Mix
	CI, CO	Buffer In/Out
	CI,CO	Buffer Input & Output
	CIF	Control Signal Forward Input
	CIF, CIR	Positive Control Pulse, Negative Control Pulse
	CIR	Control Signal Reverse Input
	CK	Clock
	CL/CLK	Clock
	CLASS	Classeffication Signal for Compress (DCT/VLC)
	CLASS 0.1	Class Control Signal Durring DCT/VLC
	CLK135	13.5MHz System Clock
	CLK18	18MHz System Clock
	CLK2	Clock 2 (824XFH: 12.875MHz)
	CLK246	24.576MHz Clock
	CLK27	27MHz System Clock
	CLK450	450KHz Clock
	CLKDCLK	Digital Clock
	CLK-PH	Clock Phase Control
	CLK-REF	Reference Clock
	CLP-RST-H	Clamp Reset High Signal
	CLX	TFT X-axis Transmission Clock
	CLX, CLX1-4	Shift Clock for X Direction (LCD Panel)
	CLY	Shift Clock for Y Direction (LCD Panel)
	CLY	TFT Y-axis Transmission Clock
	CLY FG	Cylinder FG Signal
	CMEMO0-3	Chroma Memory Output Signal 0-3
	CMIX	Character Mix
	CMO	Chrominance Memory Output
	COMPC	Position Detection Pulse
	COM RDY	Serial Enable Signal
	CMODE	Camera Mode
	CNCLK	Clock
	CNR	Chrominance Noise Reduction
	CNT, CONT	Control
	CO	Control Out
	CO0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	COM RDY	Serial Transmission Enable
	COMB	Comb Filter
	COS EQ	Cosin Equalizer
	CP	Clamp Pulse
	CP ON(H)	Camera Power On(H)
	CP2, 20	Clamp Pulse
	CP2A, CP2O	Encoder Clamp Pulse
	CPN	Component Signal
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CPV	Gate Scan Clock
	CR OUT	Pre Apature Out
	CR POW SW	Camera Remote Power On Switch
	CRA	Aperture Gain Control

	INITIAL/LOGO	ABBREVIATIONS
	CRA	Pre Apature Gain Control
	CRST	Camera Reset
	CS	Chip Select
	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CSI 0-7	Chrominance Signal In 0-7
	CTSW	Crosstalk Switch
	CURR	Current
	CW	Clockwise
	CYL EC	Cylinder Motor Trque Control
	CYL PG	Cylinder Motor PG
	CYL VM	Cylinder Motor Current or Power
D	D CLK	Digital Clock
	D MODE	Digital Mode Switch Signal
	D01-03	Zoom 01-03
	DA UV SEL	D/A Convertor U/V Select
	DAC	Digital Analogue Converter
	DAG	Digital Analogue Ground
	DB0-7	Data 0-7
	DB0-7	Microprocessor Data
	DCC	DC Clamp Control
	DCCNT	DC Control
	DCI	Digital Channel Cording IC
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DCS-CLK, DA	CAS & DV I/F Serial Clock
	DC-STP1	DCS Serial Start
	DC-STP2	DCS Serial Stop
	DCT	Discrete Cosine Transform (Compression)
	DCX7	Serial Data
	DEDP 0-3	Playback Data
	DEDR 0-3	Rec Data
	DEMO	Demodulation
	DEMP	A/D Convertor Empahsis Control
	DEMP	De-Emphasis
	DFD 0-7	Encode Data In/Out Between Shaffling Memory
	DFD0-7	Encode Input/Output Signal for Shuffling Memory
	DIBDCK	Bit Clock
	DICLK	Digital Clock
	DIDAT	Serial Data
	DIDAT	Serial Data Durring Digital Audio In
	DIF	Digital Interface
	DILRCK	L/R Clock
	DILRCK	Serial Clock Durring Digital Audio In
	DIMCK	Master Clock
	DIMCK	Mater Clock Durring Digital Audio In
	DIO 1-8	Data In/Out
	DIOS	Data In/Out Select Control Signal
	DIOS	Select Signal for Digital In/Out
	DIS	Digital Image Stabilizer
	DIS R/B	Digital Image Stabilizer Read (H)/Busy (L)
	DIS R/B	DIS IC Rady/Busy
	DIS/KAND	Digital Image Stabilizer/Sensitivity
	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DOBCK	Audio A/D Convertor Bit Clock
	DOCTL	Data Output Control Signal
	DODAT	Serial Data (to D/A Converter)
	DOLRCK	Audio A/D Converter LR Clock
	DOLRCK	L/R Clock (to D/A Converter)
	DOMCK	Audio A/D Converter Master Clock
	DOMCK	Master Clock (to D/A Converter)
	DQ 1-16	Memory Data
	DRAM CAS	D-RAM Colum Address Strobe
	DRAM OE	D-RAM Out Enable
	DRAM RAS	D-RAM Read Address Strobe
	DREC	AV Delayed REC Start Pulse
	DRK	Dark (LPF Switch for Auto Focus)
	DS1, 2	Double Sampling Pulse
	DSF 0-7	Data In/Out for Shaffling Memory
	DSF 0-7	Input/Output Data to Shuffling Memory (18MHz)
	DSP	Digital Signal Processor
	DSP R/B	DSP IC Rady/Busy
	DSP-48K-H	DSP IC Clock Select
	DSTB	Data Stobe Signal
	DSV	Digital Sum Variation
	DV	Digital Video
	DVB	Digital Video Broadcast
	DVC	Digital Video Cassette
	DVDD	Digital VDD
	DVIO	Digital Video Input Output
	DVSS	Digital Ground
	DX	Shift Data for X Direction (for LCD)
	DY	Shift Data for Y Direction (for LCD)
	DY	TFT Y-axis Shift Data
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E ZM	Electric Zoom
	E2 CS or E2P CS	EEPROM Chip Select
	E2 R/B	EEPROM Rady/Busy
	E2P	EEPROM
	EARP	Earphone
	EC	Torque Control
	ECC	Error Correction Cording
	ECM	Electric Condencer Mic
	ECR	Reference Voltage for Capstan Torque
	EDA	Error Correction, DCI, ATF Servo
	EE CS	EEPROM Chip Select
	EE R/B	EEPROM Read (H)/Busy (L)
	EEPROM	Electric Erasable Programable Read Only Memory
	EIS	Electric Image Stabilizer (DIS)
	EMP	A/D Convertor Emphasis Control
	ENAB	Enable
	ENV	Enverope
	EOB	End of Block

	INITIAL/LOGO	ABBREVIATIONS
	EQ	Equalizer
	EVF	Electric View Finder
	EXT DC	External DC (AC Adaptor)
	EXT DC(H)	AC Adaptor DC (H)
	EXT NOREG	AC Adaptor 6V
	EXT S DATA	Serial Data for Edit
	EXT SCK	Serial Clock for Edit
	EZOOM	Electric Zoom
F		
	F ENC	Lens F-Value
	FACT MODE	Factry Mode (not used in the service)
	FB	Feed Back
	FC	Saw Tooth Signal In
	FCK	Clock
	FCO	Saw Tooth Signal Generator
	FENC	Focus Encoder
	FEND	Frame End Pulse
	FH2B	FH/2 (15.625KHz / 2=7.8125KHz)
	FIX OSD	Auto Tracking Off (H)
	FLICK	Flicker Output
	FM	Field Memory
	FM0-7	Field Memory 0-7
	FMCO0-3	Field Memory Chrominance Out 0-4
	FMDIR	Focus Motor Direction
	FMOEM	Field Memory Enable
	FMOEO	Field Memory Enable
	FMT1-4	Focus Motor Terminal 1-4
	FMY00-07	Field Memory Luminance Out 0-7
	FMYI0-07	Field Memory Luminance In 0-7
	FNO	F Value
	FPS	Frame Refference Signal
	FR	Capstan Reverse High
	FRP	Frame Refference Pulse
	FRPSO	Frame Start Pulse
G	G1, G2, G3	Gap 1, 2 and 3
	GCA	Gain Control AMP
	GCNT	Gain Control
	G-CNT	AGC Adjustment
	GCTRL	Gain Control
	GENE	Generator
	GF	FG AMP Terminal
	GSW	Ground for Switching Power
H	H/M/N	Hi-Fi / Mix / Normal
	H/N	Hi-Fi / Normal
	H1, 2	H. CCD Drive Pulse
	HAP	Horizontal Aperture
	HASW	Head AMP Switching Pulse
	HB	Hall Bias
	HBR SET	High Brightness Set
	HBRST	High Brightness Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive

	INITIAL/LOGO	ABBREVIATIONS
	HD	Horizontal Drive Pulse
	HDTV	High Definition TV
	HEX	Hexadecimal
	HG	Hall Gain
	HID	Head Switching Pulse
	HLT	High Bright Signal
	HALL IN(+), (–)	Input Signal from Hall IC
	HP	Headphone
	HPF	High Pass Filter
	HSE	Modulated Data Output
	HSP	Timing Pulse for Shaffling Memory
	HSS	Horizontal Sync Signal
	HSW	Head Switching Pulse
	HS-WT	High Speed Zoom
	HSZ	High Speed Zoom
I	I/F	Interface
	I-2 C	Inter Integrated Circuit
	ID(H)	Wide Television (H)
	IMP	Inter Microprocessor Protocol
	INF	CCD Input Signal 1
	INF	Input Frame Signal
	INS	CCD Input SIgnal 2
	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOV	B-Y Analogue Signal Output
	IOY	Y Analogue Signal Output
	IR	Infrared Rays
	IRDET	Imfrared Ray Detection
	IREF	Current Adjustment Terminal
	IRIS/SH	Iris / Shutter Control
	IRQ	Interrupt Request
	ITI	Insert & Track Information
J	JPEG	Joint Photographic Image Cording Experts Group
K	KANDO	Digital Gain Up
	KB	Carrier Balance
	KEY IN	Key Scan
	KND	Digital Gain Up
	KNEE	Luminance Compensate
L	LCD	Liquid Crystal Display
	LCD P(L)	LCD Power On (L)
	LD	Load Pulse
	LDD	Liquid Direct Drive
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LOAD	Loading
	LOAD F, R	Loading Direction (F: Forward / R: Reverse)
	LPF	Low Pass Filter
	LRMONO	Monoral Audio (L + R)
	LSB	Least Significant Bit

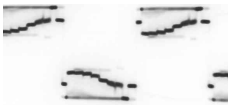
INITIAL/LOGO		ABBREVIATIONS
	LVL	LPF Switch for Auto Focus
M	M1-3	Motor Coil Terminal 1 to 3
	MA0-5	Microprocessor Address Data 0-5
	Mbps	Megahertz Bit Per Second
	MD	Modulation
	MD0-7	Microprocessor Data 0-7
	MDT0-7	Microprocessor Data 0-7
	ME (TAPE)	Metal Evaporated (Tape)
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MHSYNC	Monitor Horizontal Sync Signal
	MIC	Memory In Cassette
	MIG	Meta In Gap
	MIX N.R.D.	Non Rec Data Mix
	MOD	Modulation
	MOUT	Mic Out
	MP (TAPE)	Metal Particle (Tape)
	MPEG	Moving Picture Image Cording Experts Group
	MPEG2	Moving Picture Image Cording Experts Group Phase 2
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal
N	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NB1-3	Base for NPN Transistor
	NC	No Connection
	NC1-3	Corrector of NPN Transistor
	NCLR	Power On Reset
	NCP1	Clamp Pulse
	NCP2+VDH	Clamp Pulse + Horizontal Drive Pulse
	NCP2+VDM	Clamp Pulse + Gate Pulse
	NDE	Non Liner De-Emphasis
	NE	Emitor of NPN Transistor
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	Non Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OB	Optical Black
	OBCNT	Optical Black Control
	OBREF	Reference Voltage for Optical Black Control
	OE	Output Enable
	OFH	Horizontal Counted Down Clock Signal (Reference)
	OFS	Offset
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom

INITIAL/LOGO		ABBREVIATIONS
P	P SW	Power Switch
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBH	Head Amp Switch
	PBLK	Pre-Blanking (Pulse)
	PC1-3	Corrector of PNP Transistor
	PCBM	Carrier Balance
	PCH	Phase Compensator (Hall AMP)
	PCI	Phase Compensator (Current)
	PCO	Phase Compensator Out
	PCS	Switching Power Control
	PCV	Phase Compensator (Voltage)
	PE	Emitter of PNP Transistor
	PED	Pedestal
	PEDECNT	Pedestal Control
	PENO	Alarm (L)
	PFP	Pilot Frame Position
	PGA, B	Power Ground A, B
	PGC	Pulse Generator Comparator
	PGI	Pulse Generator Input
	PGMM	Pulse Generator Monostable Multivibrator
	PGO	Output of Pulse Generator AMP
	PMODE	Select Signal for Normal / Wide Screen
	PON	Power On
	POR	Power On Reset
	POSCOM	Common Position
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
	PWMB	Pulse Width Modulation Pulse
Q	Q2H	Source Output Select
R	R CTL P	Recorded Control Pulse (+)
	R CTL R	Recorded Control Pulse (–)
	R/B	Read/Busy
	R/L	Direction Control for Data Transmition
	RA	Recording AMP
	RA1	Rec AMP 1
	RAC AC	Rec Audio Current
	RAD	Read Address Data
	RAE	Read Address Enable
	RB	Read Busy
	R-B	R Bias
	RCB	R Carrier Balance
	RE	Read Enable
	RE(F), (S)	Rotary Erase Head Transformer
	REB	R Bias
	REC CC	Rec Current Control
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RECI	Rec Amp Switch

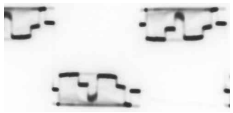
INITIAL/LOGO		ABBREVIATIONS
	RENCF	Lens Control (Forward)
	RENCR	Lens Control (Reverse)
	RERASE	Rotary Erase Head
	RGBIV1-2	1V Inverted Signal 1-2
	RGO R/G OFF	Offset Voltage for AWT R
	RSF	Capstan Direction (Reverse / Stop / Forward)
	RST	Reset
	RSTB	R Strobe
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write
	RT	Saw Tooth Terminal
	RVCO	Resister for Oscillation
	RW	Read Write
	RWAE	Read Write Enable
S	S PHOT	Supply Photo Transistor
	S/H	Sampling Hold
	S/S	Start/Stop
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SBT	Serial Clock
	SCAN0-5	Key Scan 0-5
	SCK	Serial Clock
	SCR	Search
	SCR, S.C.R.	Still Cue Review
	SEG.	Segment
	SET	White Balance Set
	SH/IRIS	Shutter/Iris Control
	SHIFT	Capasitor for Phase Shift
	SI	Serial Data Input
	SIC	Shift In Clock Input
	SIOC	Serial In/Out Control
	SMCE	Shaffling Memory Chip Enable
	SMRS	Shaffling Memory Read Strobe
	SMWE	Shaffling Memory Write Enable
	SMWS	Shaffling Memory Read Strobe
	SNAP	Snap Shot
	SNS LED	Sensor LED
	SO	Serial Data Output
	SPA	ATF Smapling Pulse
	SPEN	8 Bit Shift Register Enable
	SPK	Speaker
	SPO	Reset for Switcing Power
	SPST	8 Bit Shift Register Strobe
	SREELP	Supply Reel Pulse
	SRT	Start
	SSA	Start Sync block Area
	SSW	Select Signal for Low Pass Filter
	ST5V	Safety Tab 5V
	STAB	Safety Tab Switch
	STB	Stand by Signal
	STB	Strobe
	SWB	Switching Pre-Drive Pulse
	SYL EC	Cylinder Torque Control
	SYL FG	Cylinder FG
T	T PHOT	Take-up Photo Transistor
	TBC	Time Base Conntrol
	TFT	Thim Film Transistor
	TH	Thermostat for Battery
	TI	Test Mode Select
	TL	Torque Limit
	TM	Sub Code
	TMD	Sub Code Data
	TRE	Tracking Error Signal
	TREEL(P)	Take-up Reel (Pulse)
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
	TRP	Trap
	TSR	Head Switching Refference
	TST	Time Scale Transfer
U	U/V SEL	R-Y/B-Y Select Signal
	UNLOAD	Un-Loading
	UNRE	Microprocessor Read Enable
	UNWE	Microprocessor Write Enable
	UV	R-Y/B-Y
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V. CCD Drive Pulse
	VB	VH Filter Switching
	VCE	Power Terminal
	VCNTL	Video Control
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTLD	Video Control
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDDX	X Drive Power for Colour LCD
	VDDXY	XY Drive Power for Colour LCD
	VDDY	Y Drive Power for Colour LCD
	VDREC	Video Delayed Rec
	Vgg	Voltage for Gate IC
	Vgl	Gate off Voltage
	VID	Video Signal Out
	VIN	Video In
	VITC	Vertical Interval Time Code
	VITERBI	One of Signal Detection Method
	VL	Low Voltage
	VLC	Variable Length Cording
	VLOCKP	Artificial Sync Pulse
	VLP	Artificial Sync Pulse
	VM	Motor Voltage
	VMD	Velocity Mode Data
	VMD1-3	Electric Shutter Mode

INITIAL/LOGO		ABBREVIATIONS
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VRBS	Voltage Refference Bottom Output
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VRTS	Voltage Refference Top Output
	VS	Switching Comparator
	VSS	Vertical Sync Signal
	VSSX	X Driver Power for Colour LCD
	VSSXY	X-Y Driver Power for Colour LCD
W	W/N	Mode Select for Window Mode
	W/N	Wide / Normal
	WAD	Write Address Enable
	WAE	Write Address Enable
	WAERAE	Write Address Enable
	WARI	Interrupt
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
	WIDE A	Wide Zoom
	WSB	B AGC Control
	WSR	R AGC Control
	WTV	Wide TV
X	XP	FG Logic Reset
Y	Y FM0-7	Y Field Memory 0-7
	YCE	Cylinder Error Code
	YGC	Y Gain Control
	YMO 0-7	Y Field Memory 0-7
	YNCST	Noize Canceller
	YNR	Luminance Noise Reduction
	YSDP 0-7	Digital Y Out 0-7
Z	Z.ENC	Zoom Encoder
	Z.MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMDIR	Zoom Drive
	ZMEN	Zoom Enable
	ZMT	Zoom Motor Tele Side
	ZMT (+)/(–)	Zoom Motor (+)/(–)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side
	ZSW	Zoom Switch

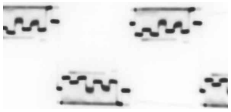
INITIAL/LOGO	ABBREVIATIONS



FP802-2 REC/PLAY
8.0Vp-p (20usec.div.)



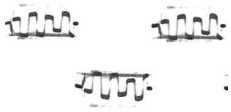
FP802-3 REC/PLAY
8.0Vp-p (20usec.div.)



FP802-4 REC/PLAY
8.0Vp-p (20usec.div.)

IC901-5 REC/PLAY
2.7Vp-p (20usec.div.)

IC901-10 REC/PLAY
3.0Vp-p (20usec.div.)



IC901-32 REC/PLAY
9.0Vp-p (20usec.div.)

IC901-34 REC/PLAY
9.0Vp-p (20usec.div.)

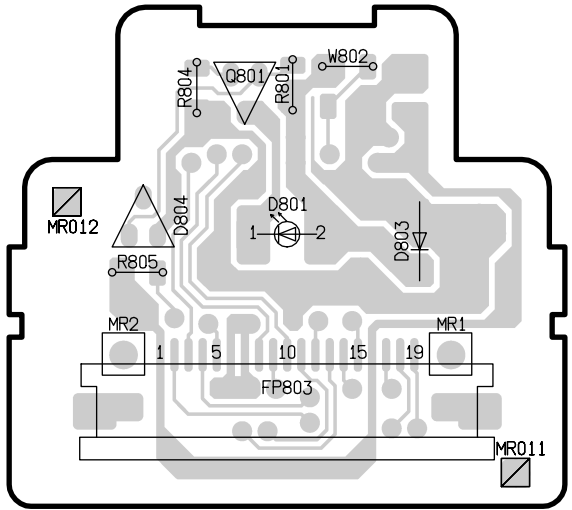
IC901-36 REC/PLAY
9.0Vp-p (20usec.div.)

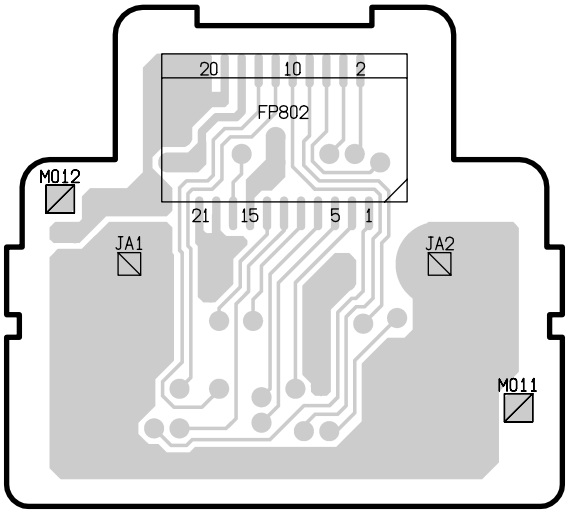
IC901-70 REC/PLAY
0.5Vp-p (20usec.div.)

IC901-71 REC/PLAY
0.5Vp-p (20usec./div.)

IC901-72 REC/PLAY
0.6Vp-p (20usec./div.)

(VEP28296B)





(COMPONENT SIDE) (FOIL SIDE)

NV-MX500EG/B/EN/A/ENT
EVF C.B.A.

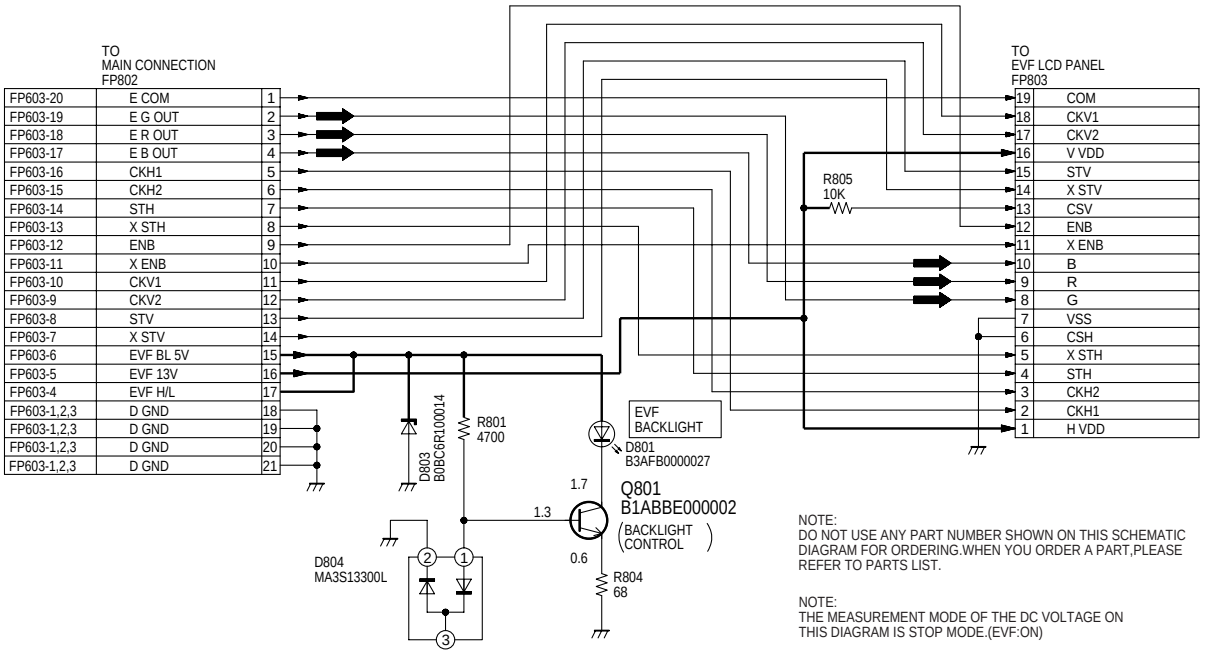
B

A

1 2 3 4 5

(EVF C.B.A.)

:VIDEO MAIN SIGNAL PATH



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(EVF:ON)

NV-MX500EG/B/EN/A/ENT
EVF SCHEMATIC DIAGRAM

C B A

1 2 3 4

(FRONT JACK C.B.A.)

:VIDEO MAIN SIGNAL PATH
:AUDIO MAIN SIGNAL PATH

TO MIC UNIT FP4803

REG A5V	7
MIC OUT RF	6
MIC OUT RR	5
MIC OUT LF	4
MIC OUT LR	3
MIC GND	2
MIC GND	1

TO FP4801

CL4901 CL4902 CL4907

R4925 39K R4929 39K R4926 100K R4930 100K

Q4905 B1ABCF000077 (REG.5V) 4.1 4.8 4.8

R4919 4700

C4925 F3F0J4760002

Q4902 2SA1586 (AMP) 4.1 3.5 2.2

Q4904 2SA1586 (AMP) 4.1 3.5 2.2

R4906 10K R4907 150K 0.9 3.5 0.4

Q4901 2SC4116GR (AMP)

R4913 10K R4914 150K 0.9 3.5 0.4

Q4903 2SC4116GR (AMP)

CL4905 CL4906

C4906 1 C4907 1

R4905 470 C4903 1 R4901 6800 C4901 2200P R4908 56K R4909 1K

R4910 5600 R4911 150 C4905 6V22

R4912 470 C4908 1 R4903 6800 C4902 2200P R4915 56K R4916 1K

R4917 5600 R4918 150 C4910 6V22

Q4906 B1ABCF000077 (AMP) 4.1 0.2 0

R4904 100K C4912 1

Q4907 B1ABCF000077 (EXT MIC Ⓛ:OFF) 1.9 0

R4920 10K

R4922 6800 R4924 6800

TO MAIN CONNECTION FP4804

28	S Y I/O	FP6505-1
27	S PLUG Ⓛ	FP6505-2
26	S C I/O	FP6505-3
25	D GND	FP6505-4
24	D GND	FP6505-5
23	D GND	FP6505-6
22	MIC R	FP6505-7
21	MIC 5V	FP6505-8
20	MIC 5V	FP6505-9
19	MIC L	FP6505-10
18	MIC GND	FP6505-11
17	MIC GND	FP6505-12
16	MIC GND	FP6505-13
15	MIC R2	FP6505-14
14	MIC L2	FP6505-15
13	CR POWER	FP6505-16
12	D GND	FP6505-17
11	D GND	FP6505-18
10	PLUG IN Ⓛ	FP6505-19
9	EXT MIC Ⓛ	FP6505-20
8	SUB REC	FP6505-21
7	L/HP L	FP6505-22
6	R/GND	FP6505-23
5	V/HP R	FP6505-24
4	D GND	FP6505-25
3	D GND	FP6505-26
2	WD REMO	FP6505-27
1	WD REMO	FP6505-27

A3 A1 A2

CR POWER PLUGIN Ⓛ L HPL R GND V HPR WD REMO

TO FRAME GND

TL4902 TL4901

EXT MIC
JK4901
K2HC105E0003

LB4905 J0JAC0000026
LB4906 J0JAC0000026
LB4907 J0JHC0000032

JK3001
K2HZ104A0002
S-VIDEO IN/OUT

R3961 1K
LB3961 J0JBC0000042
LB3963 J0JBC0000042

VZ3952 D4ED1120A002
VZ6401 D4ED1270A008
VZ6402 D4ED1270A008

R3960 0

AV IN/OUT PHONE
JK4001
K2HC107B0002

C4002 4700P C4001 4700P
R4003 0

LB4005 J0JAC0000014
LB4006 J0JAC0000014
LB4003 J0JAC0000014
LB4001 J0JBC0000042
LB4008 J0JAC0000014
LB4007 J0JAC0000014

R4001 100
R4002 0

CL4807 CL4805

R GND
L HPL
PLUGIN Ⓛ
V HPR
WD REMO
CR POWER

VZ4001 D4ED12710002
VZ4002 D4ED12710002

SUB REC
S7002
VMG0763
J7012 SUB REC
J7011 D GND
SUB REC C.B.A.

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

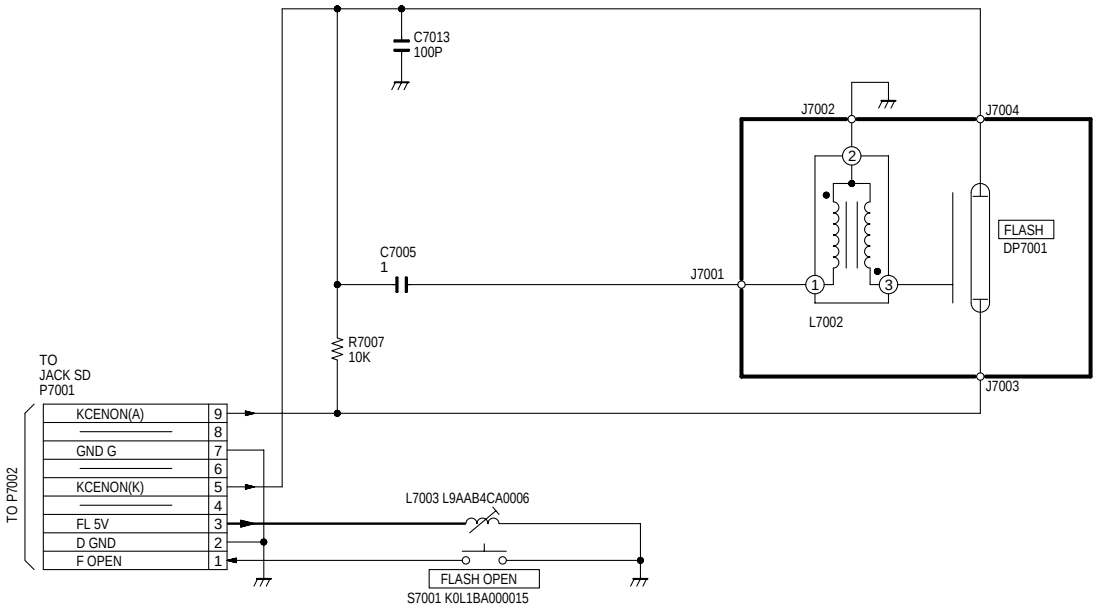
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NV-MX500EG/B/EN/A/ENT
FRONT JACK & SUB REC
SCHEMATIC DIAGRAM

F E D C B A

1 2 3 4 5 6 7 8 9

(FLASH FLEX.)



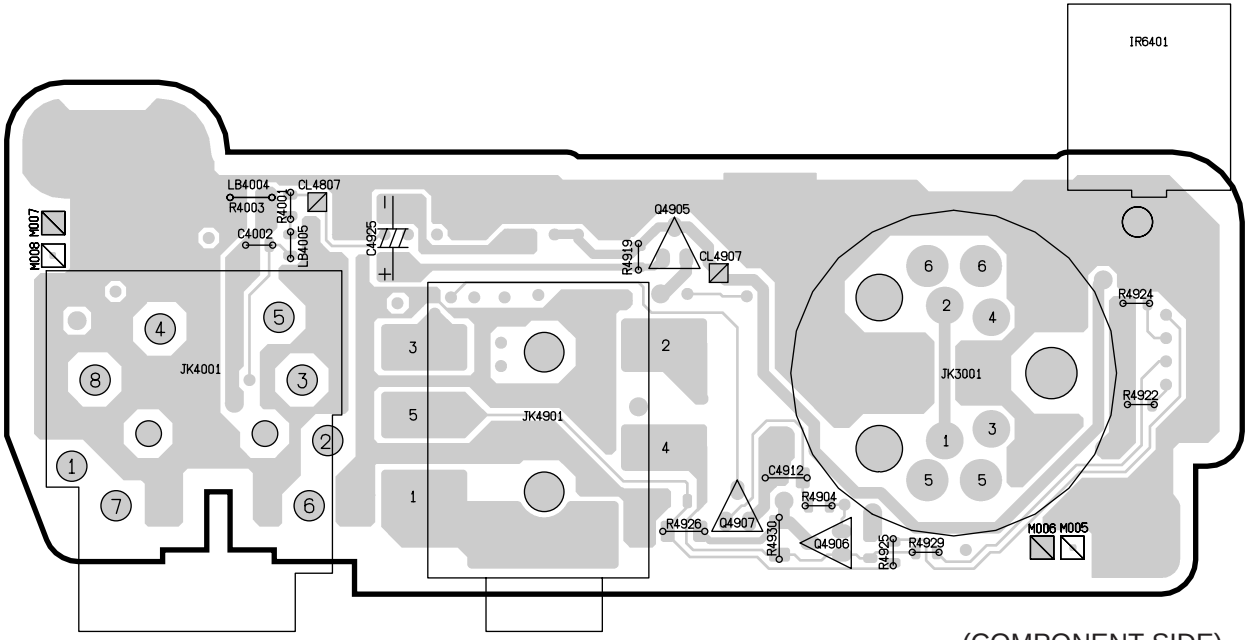
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NV-MX500EG/B/EN/A/ENT
FLASH FLEX. SCHEMATIC DIAGRAM

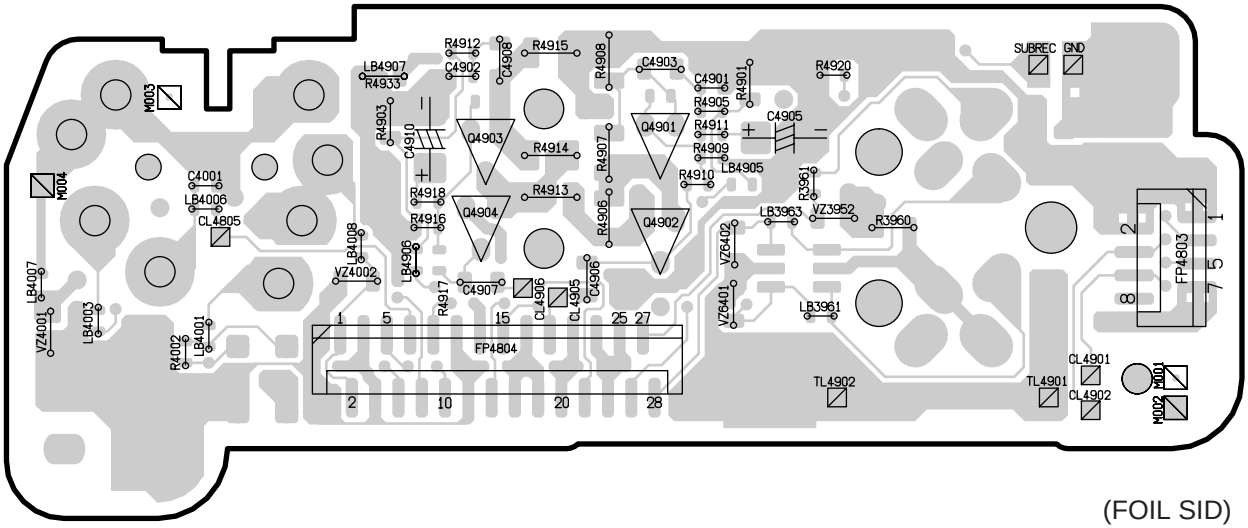
(VEP04812A)

NOTE:MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.



(COMPONENT SIDE)



(FOIL SID)

NV-MX500EG/B/EN/A/ENT
FRONT JACK C.B.A.

LENS UNIT

PRISM UNIT

HOT SHOE CONNECTOR

BATTELY CATCHER

CAMERA ADJ./VOL/JOG

POWER/MODE START/STOP

REAR OPERATION UNIT

PS201

1	SIG G
2	A GND
3	15V
4	15V
5	H2 G
6	H1 G
7	V4 G
8	V3 G
9	V2 G
10	V1 G
11	V1 R
12	V2 R
13	V3 R
14	V4 R
15	5V B
16	5V B
17	H2 B
18	H1 B
19	A GND
20	SIG B
21	A GND
22	SUB B
23	V1 B
24	V2 B
25	V3 B
26	V4 B
27	A GND
28	A GND
29	SIG R
30	A GND
31	R
32	SUB R
33	H1 R
34	H2 R
35	SUB G
36	5V RG
37	5V RG
38	PT
39	PT
40	A GND

FP701

1	X DRV(+)
2	Y DRV(-)
3	Y DRV(+)
4	Y VH(-)
5	Y HO(+)
6	Y VH(+)
7	Y HO(-)
8	X HO(-)
9	X VH(+)
10	X HO(+)
11	X VH(-)
12	X DRV(-)
13	FMR A
14	FMR GND
15	FMR B
16	FMR VCC
17	ZAN
18	ZBN
19	ZAP
20	ZBP
21	ZMR VCC
22	ZMR A
23	ZMR GND
24	ZMR B
25	FM T(+)
26	FM T(-)
27	ND CNT(-)
28	ND DRV(-)
29	ND H IN(+)
30	ND HO(-)
31	ND H IN(-)
32	ND HO(+)
33	ND DRV(+)
34	ND CNT(+)
35	ALC M(+)
36	ALC CNT(+)
37	H IN(+)
38	H OUT(+)
39	H IN(-)
40	H OUT(-)
41	ALC CNT(-)
42	ALC M(-)
43	Z ABS
44	Z LED
45	Z ENC VCC

FP3402

1	SHOE GND
2	SHOE GND
3	SHOE GND
4	SHOE DET
5	SHOE SCLK
6	SHOE SDATA
7	SHOE UNREG
8	SHOE UNREG

FP1001

1	+B
2	+B
3	+B
4	+B
5	+B
6	
7	D
8	D
9	
10	GND
11	GND
12	GND
13	GND
14	GND

FP6502

1	
2	
3	
4	D GND
5	POWER SW
6	MODE CVD
7	SCAN1
8	S/S
9	DSC LED
10	D GND
11	CAM LED
12	VTR LED
13	MENU
14	ENC1
15	ENC2
16	MODE SW
17	D GND

FP3401

CHAEND	1
CHARGE	2
TRIGEND	3
SENSOR	4
F OPEN	5
F ADJ	6
F UP (H)	7
SENS SW	8
GYRO Y	9
GYRO X	10
DSC 3.5V	11
CARD DO	12
CARD CLK	13
CARD CMD	14
DSC GND	15
DSC GND	16
DSC GND	17
V BUS	18
USB D(-)	19
USB D(+)	20

PP301

CAM D3 OFF	150	1	CAM UARTO
CAM SCK	149	2	CAM UARTI
V C DATA	148	3	E2 CLK
C V DATA	147	4	E2 DATA
VTR T	146	5	Z SW
CAM O	145	6	ZOOM AD
CAM TEST	144	7	
CAM VD	143	8	CAM RTN
EVR SBO	142	9	CAM RST
EVR SBI	141	10	RTN FLD
EVR SCK	140	11	CLK45
CAM 15V	139	12	E2 CS
CAM 15V	138	13	AFST
CAM -7.5V	137	14	FNO
MF ENC1	136	15	CAMF VCC
MF ENC2	135	16	AF/MF
MODE SW	134	17	C EXMOD1
D GND	133	18	D GND
D GND	132	19	D GND
D GND	131	20	Y DATA17
D GND	130	21	Y DATA16
IR OUT	129	22	Y DATA15
FULL AUTO	128	23	Y DATA14
AE LOCK	127	24	Y DATA13
OIS	126	25	Y DATA12
WB	125	26	Y DATA11
MF L1	124	27	Y DATA10
MF L2	123	28	C DATA17
ND FNO	122	29	C DATA16
MCLKD	121	30	C DATA15
BCLKD	120	31	C DATA14
LRCKD	119	32	C DATA13
STDID	118	33	C DATA12
	117	34	C DATA11
D GND	116	35	C DATA10
D GND	115	36	INH1
D GND	114	37	INH2
D W0	113	38	CLK135
D W1	112	39	CLK27B
CARD LED	111	40	INV1
D UARTI	110	41	INV2
UARTO	109	42	C DATA27
DSC WAKEUP	108	43	C DATA26
DSC XRST	107	44	C DATA25
DSC CLK	106	45	C DATA24
DSC DTO	105	46	C DATA23
DSC BUSY	104	47	C DATA22
	103	48	C DATA21
DSC RST	102	49	C DATA20
DSC FRP	101	50	Y DATA27
DSC DTI	100	51	Y DATA26
	99	52	Y DATA25
SHOE P (H)	98	53	Y DATA24
TBCLK	97	54	Y DATA23
TLRCK	96	55	Y DATA22
TSTDO	95	56	Y DATA21
SELD (H)	94	57	Y DATA20
CAM 1.5V	93	58	
CAM 1.5V	92	59	
CAM 1.5V	91	60	REG A5V
CAM 1.5V	90	61	REG A5V
SUB 1.8V	89	62	REG D3V
SUB 1.8V	88	63	REG D3V
SH 2V	87	64	A3V(2)
SH 2V	86	65	A3V(2)
REG 3V	85	66	3CCD 3V
REG 3V	84	67	3CCD 3V
LENS 3V	83	68	D GND
SS DET	82	69	D GND
D GND	81	70	D GND
D GND	80	71	D GND
D GND	79	72	D GND
SHOE DAT	78	73	NOREG
SHOE CLK	77	74	NOREG
SHOE DET	76	75	NOREG

SUB C.B.A.

- LENS DRIVE
- DSC
- PROCESS
- SENSOR

PS3001

CAM D3 OFF	150	1	CAM UARTO
CAM SCK	149	2	CAM UARTI
V C DATA	148	3	E2 CLK
C V DATA	147	4	E2 DATA
VTR T	146	5	Z SW
CAM O	145	6	ZOOM AD
CAM TEST	144	7	
CAM VD	143	8	CAM RTN
EVR SBO	142	9	CAM RST
EVR SBI	141	10	RTN FLD
EVR SCK	140	11	CLK45
CAM 15V	139	12	E2 CS
CAM 15V	138	13	AFST
CAM -7.5V	137	14	FNO
MF ENC1	136	15	CAMF VCC
MF ENC2	135	16	AF/MF
MODE SW	134	17	C EXMOD1
D GND	133	18	D GND
D GND	132	19	D GND
D GND	131	20	Y DATA17
D GND	130	21	Y DATA16
IR OUT	129	22	Y DATA15
FULL AUTO	128	23	Y DATA14
AE LOCK	127	24	Y DATA13
OIS	126	25	Y DATA12
WB	125	26	Y DATA11
MF L1	124	27	Y DATA10
MF L2	123	28	C DATA17
ND FNO	122	29	C DATA16
MCLKD	121	30	C DATA15
BCLKD	120	31	C DATA14
LRCKD	119	32	C DATA13
STDID	118	33	C DATA12
	117	34	C DATA11
D GND	116	35	C DATA10
D GND	115	36	INH1
D GND	114	37	INH2
D W0	113	38	CLK135
D W1	112	39	CLKJ27B
CARD LED	111	40	INV1
D UARTI	110	41	INV2
UARTO	109	42	C DATA27
DSC WAKEUP	108	43	C DATA26
DSC XRST	107	44	C DATA25
DSC CLK	106	45	C DATA24
DSC DTO	105	46	C DATA23
DSC BUSY	104	47	C DATA22
	103	48	C DATA21
DSC RST	102	49	C DATA20
DSC FRP	101	50	Y DATA27
DSC DTI	100	51	Y DATA26
	99	52	Y DATA25
SHOE P (H)	98	53	Y DATA24
TBCLK	97	54	Y DATA23
TLRCK	96	55	Y DATA22
TSTDO	95	56	Y DATA21
SELD (H)	94	57	Y DATA20
CAM 1.5V	93	58	
CAM 1.5V	92	59	
CAM 1.5V	91	60	REG A5V
CAM 1.5V	90	61	REG A5V
SUB 1.8V	89	62	REG D3V
SUB 1.8V	88	63	REG D3V
SH 2V	87	64	A3V(2)
SH 2V	86	65	A3V(2)
REG 3V	85	66	3CCD 3V
REG 3V	84	67	3CCD 3V
LENS 3V	83	68	D GND
SS DET	82	69	D GND
D GND	81	70	D GND
D GND	80	71	D GND
D GND	79	72	D GND
SHOE DAT	78	73	NOREG
SHOE CLK	77	74	NOREG
SHOE DET	76	75	NOREG

MAIN C.B.A.

- POWER
- EX INPUT
- HEAD/REC AMP
- LCD
- VIDEO 1
- VIDEO 2
- DRIVE
- CONTROL

FP6504

ST NOREG	1
ST NOREG	2
ST NOREG	3
NOREG GND	4
NOREG GND	5
NOREG GND	6
TPA(+)	7
TPA(-)	8
TPB(+)	9
TPB(-)	10
D GND	11
D GND	12
D GND	13
S 5V	14
S 5V	15
REG D3V	16
PHOTO(E)	17
PHOTO(C)	18
CR POWER	19
5P DATA	20
5P CLK	21
TALLY	22
REMOTE CTL	23
D 5V	24
X SENSOR	25
X REF	26
D GND	27
D GND	28
D GND	29
D GND	30
UARTI	31
UARTO	32
CN (H)	33
BT 5V	34
BT 5V	35
V BUS	36
CARD PRO	37
CARD DET	38
CARD DET	39

FP6501

LI BATT(+)	1
LI BATT(+)	2
	3
	4
	5
	6
	7
	8
GND	9
DEW	10
A V REF	11
ZOOM AD	12
HSZ	13
SCAN1	14
KEY IN4	15
SP OUT2	16
SP OUT2	17
SP OUT1	18
SP OUT1	19
RESET	20
GND	21

FP6202

20	CHAEND
19	CHARGE
18	TRIGEND
17	SENSOR
16	F OPEN
15	F ADJ
14	FUP (H)
13	SENS SW
12	GYRO Y
11	GYRO X
10	DSC 3.5V
9	CARD DO
8	CARD CLK
7	CARD CMD
6	DSC GND
5	DSC GND
4	DSC GND
3	V BUS
2	USB D(-)
1	USB D(+)

FP6201

1	CARD DET
2	CARD PRO
3	V BUS
4	BT 5V
5	BT 5V
6	CN (H)
7	UARTO
8	UARTI
9	D GND
10	D GND
11	D GND
12	D GND
13	X REF
14	X SENSOR
15	D 5V
16	REMOTE CTL
17	TALLY
18	5P CLK
19	5P DATA
20	CR POWER
21	PHOTO(C)
22	PHOTO(E)
23	REG D3V
24	S 5V
25	S 5V
26	D GND
27	D GND
28	D GND
29	TPB(-)
30	TPB(+)
31	TPA(-)
32	TPA(+)
33	NOREG GND
34	NOREG GND
35	NOREG GND
36	ST NOREG
37	ST NOREG
38	ST NOREG
39	ST NOREG

JACK SD C.B.A.

FP6301

1	GND
2	GND
3	RESET
4	SP OUT1
5	SP OUT1
6	SP OUT2
7	SP OUT2
8	KEY IN4
9	SCAN1
10	HSZ
11	ZOOM AD
12	A V REF
13	DEW
14	GND
15	
16	
17	
18	
19	
20	
21	LI BATT(+)

- RESET

LITHIUM BATTERY

SPEAKER

FP6302

SCAN1	1
DEW	2
GND	3
HSZ	4
GND	5
ZOOM AD	6
A V REF	7
PHOTO SHOT	8

- PHOTO SHOT

W T ZOOM

DEW

CASSETTE COVER UNIT

SIDE(L) C.B.A.

P7002

KCENON(A)	9
	8
GND G	7
	6
KCENON(K)	5
	4
FL 5V	3
D GND	2
F OPEN	1

P7001

9	KCENON(A)
8	
7	GND G
6	
5	KCENON(K)
4	
3	FL 5V
2	D GND
1	F OPEN

FLASH

- FLASH OPEN

FLASH FLEX.

JK2501 DIGITAL STILL PICTURE

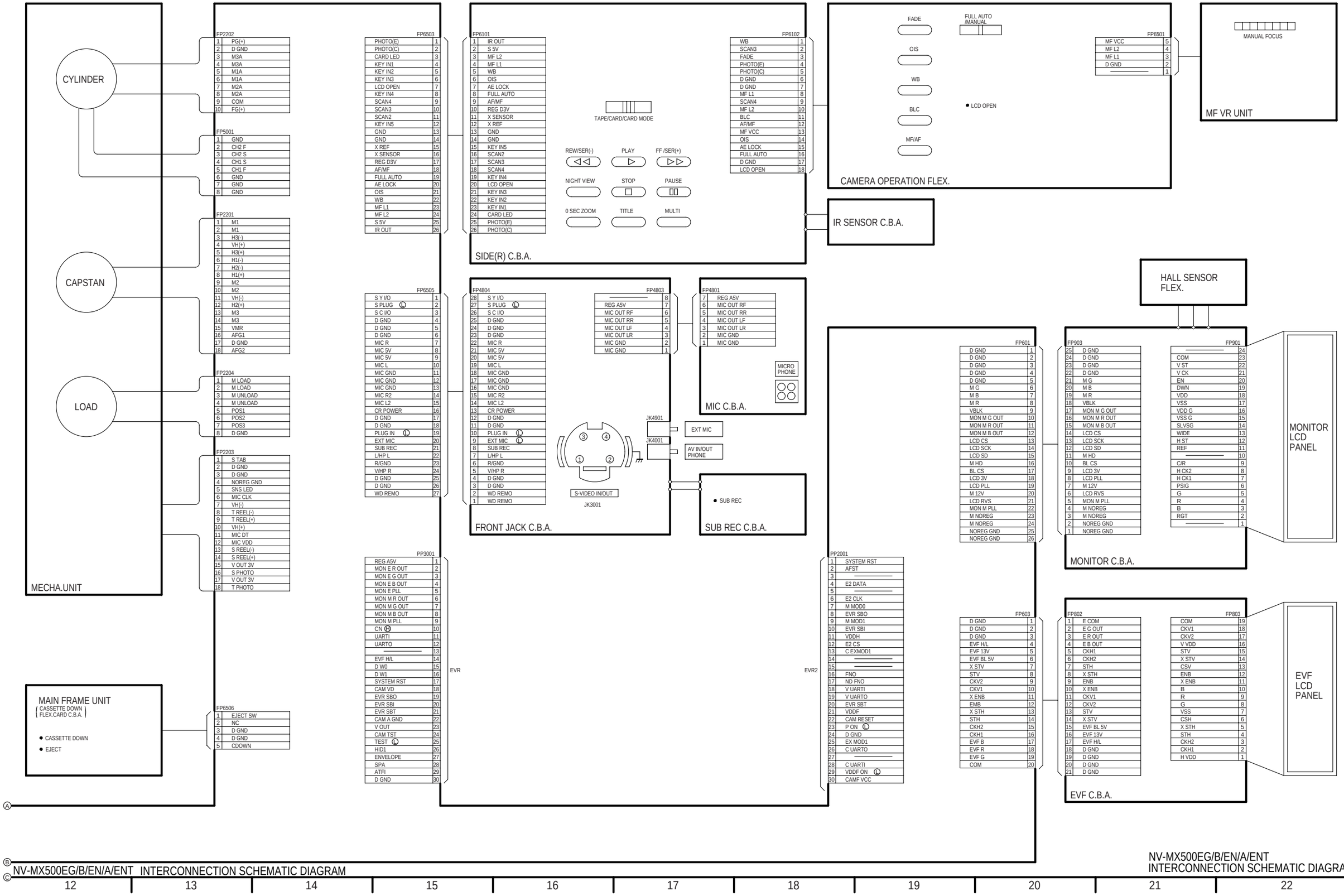
JK2502 USB/MINI/ SYSTEM

JK3801 DV TERMINAL

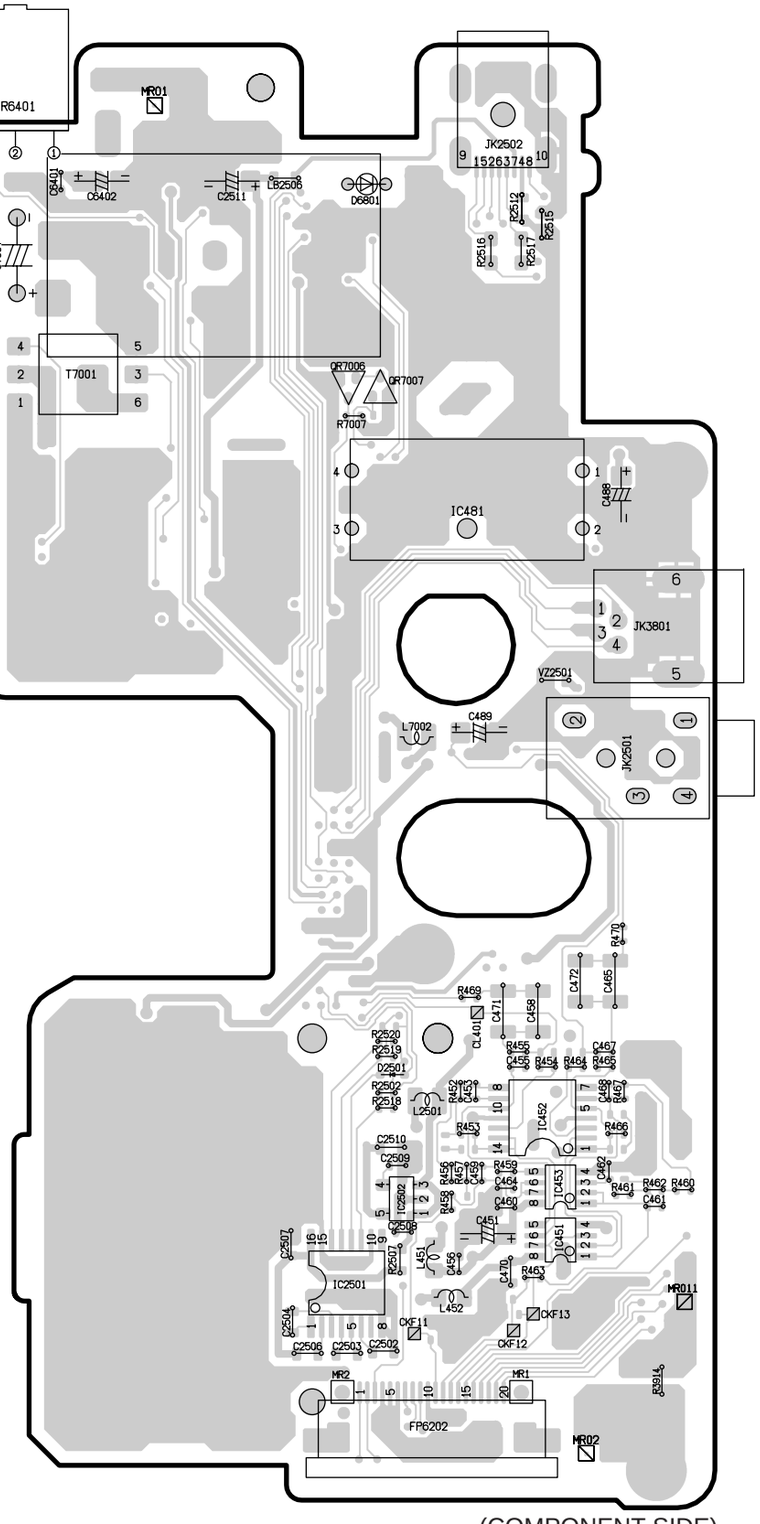
HS3401 CARD CONNECTOR

REMOTE CONTROL RECIEVER

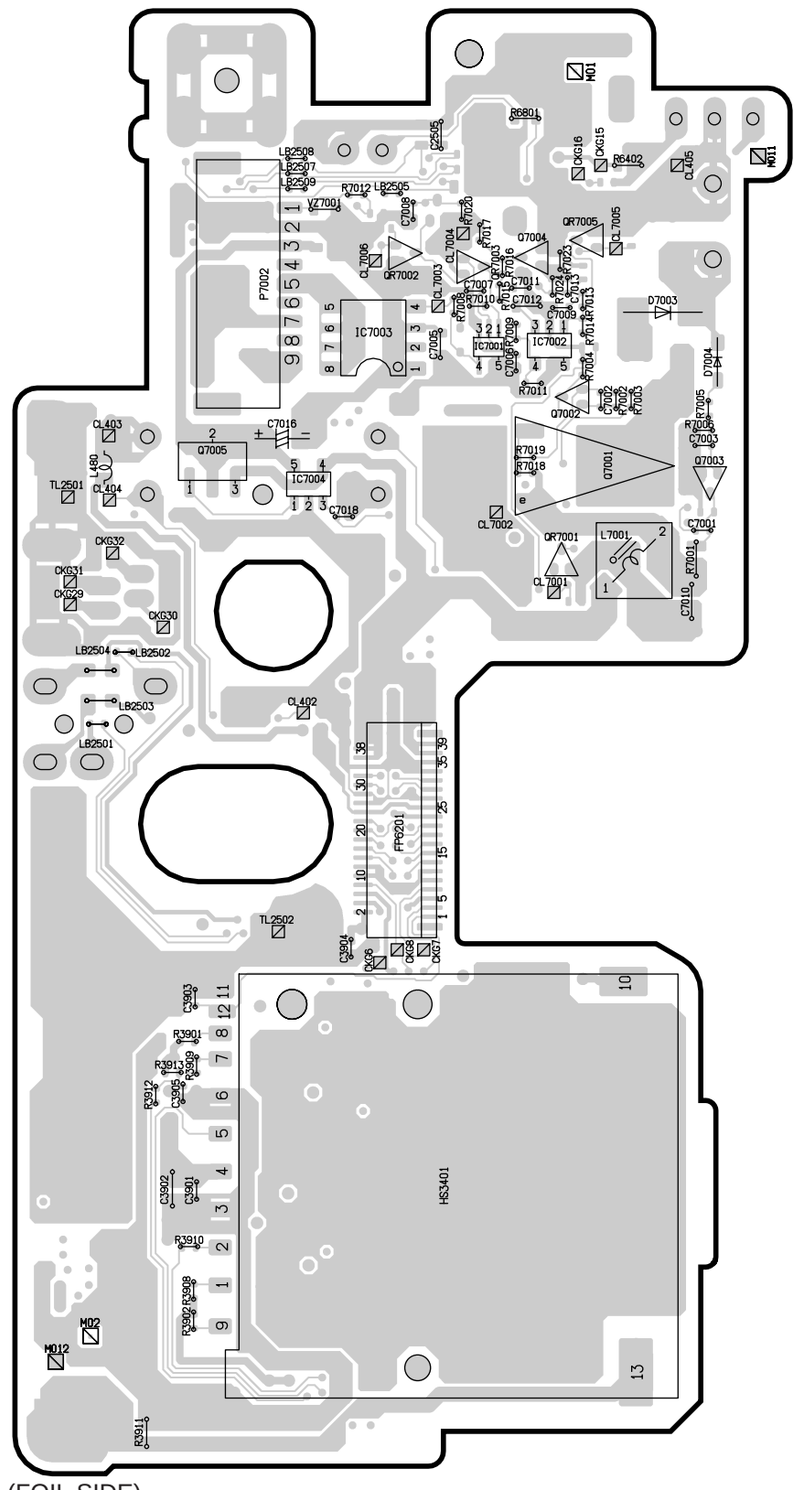
NV-MX500EG/B/EN/A/ENT INTERCONNECTION SCHEMATIC DIAGRAM


CYLINDER
CAPSTAN
LOAD
MECHA.UNIT
FP2202
1 PG(+)
2 D GND
3 M3A
4 M3A
5 M1A
6 M1A
7 M2A
8 M2A
9 COM
10 FG(+)
FP5001
1 GND
2 CH2 F
3 CH2 S
4 CH1 S
5 CH1 F
6 GND
7 GND
8 GND
FP2201
1 M1
2 M1
3 H3(-)
4 VH(+)
5 H3(+)
6 H1(-)
7 H2(-)
8 H1(+)
9 M2
10 M2
11 VH(-)
12 H2(+)
13 M3
14 M3
15 VMR
16 AFG1
17 D GND
18 AFG2
FP2204
1 M LOAD
2 M LOAD
3 M UNLOAD
4 M UNLOAD
5 POS1
6 POS2
7 POS3
8 D GND
FP2203
1 S TAB
2 D GND
3 D GND
4 NOREG GND
5 SNS LED
6 MIC CLK
7 VH(-)
8 T REEL(-)
9 T REEL(+)
10 VH(+)
11 MIC DT
12 MIC VDD
13 S REEL(-)
14 S REEL(+)
15 V OUT 3V
16 S PHOTO
17 V OUT 3V
18 T PHOTO
MAIN FRAME UNIT
(CASSETTE DOWN FLEX.CARD C.B.A.)
CASSETTE DOWN
EJECT
FP6506
1 EJECT SW
2 NC
3 D GND
4 D GND
5 CDOWN
FP6503
PHOTO(E) 1
PHOTO(C) 2
CARD LED 3
KEY IN1 4
KEY IN2 5
KEY IN3 6
LCD OPEN 7
KEY IN4 8
SCAN4 9
SCAN3 10
SCAN2 11
KEY IN5 12
GND 13
GND 14
X REF 15
X SENSOR 16
REG D3V 17
AF/MF 18
FULL AUTO 19
AE LOCK 20
OIS 21
WB 22
MF L1 23
MF L2 24
S 5V 25
IR OUT 26
FP6505
S Y I/O 1
S PLUG (L) 2
S C I/O 3
D GND 4
D GND 5
D GND 6
MIC R 7
MIC 5V 8
MIC 5V 9
MIC L 10
MIC GND 11
MIC GND 12
MIC GND 13
MIC R2 14
MIC L2 15
CR POWER 16
D GND 17
D GND 18
PLUG IN (L) 19
EXT MIC 20
SUB REC 21
L/HP L 22
R/GND 23
V/HP R 24
D GND 25
D GND 26
WD REMO 27
PP3001
REG A5V 1
MON E R OUT 2
MON E G OUT 3
MON E B OUT 4
MON E PLL 5
MON M R OUT 6
MON M G OUT 7
MON M B OUT 8
MON M PLL 9
CN (H) 10
UARTI 11
UARTO 12
13
EVF H/L 14
D W0 15
D W1 16
SYSTEM RST 17
CAM VD 18
EVR SBO 19
EVR SBI 20
EVR SBT 21
CAM A GND 22
V OUT 23
CAM TST 24
TEST (L) 25
HID1 26
ENVELOPE 27
SPA 28
ATFI 29
D GND 30
EVR
FP6101
1 IR OUT
2 S 5V
3 MF L2
4 MF L1
5 WB
6 OIS
7 AE LOCK
8 FULL AUTO
9 AF/MF
10 REG D3V
11 X SENSOR
12 X REF
13 GND
14 GND
15 KEY IN5
16 SCAN2
17 SCAN3
18 SCAN4
19 KEY IN4
20 LCD OPEN
21 KEY IN3
22 KEY IN2
23 KEY IN1
24 CARD LED
25 PHOTO(E)
26 PHOTO(C)
SIDE(R) C.B.A.
TAPE/CARD/CARD MODE
REW/SER(-)
PLAY
FF /SER(+)
NIGHT VIEW
STOP
PAUSE
0 SEC ZOOM
TITLE
MULTI
FP6102
WB 1
SCAN3 2
FADE 3
PHOTO(E) 4
PHOTO(C) 5
D GND 6
D GND 7
MF L1 8
SCAN4 9
MF L2 10
BLC 11
AF/MF 12
MF VCC 13
OIS 14
AE LOCK 15
FULL AUTO 16
D GND 17
LCD OPEN 18
IR SENSOR C.B.A.
FADE
OIS
WB
BLC
MF/AF
FULL AUTO /MANUAL
LCD OPEN
CAMERA OPERATION FLEX.
FP6501
MF VCC 5
MF L2 4
MF L1 3
D GND 2
1
MANUAL FOCUS
MF VR UNIT
FP4804
28 S Y I/O
27 S PLUG (L)
26 S C I/O
25 D GND
24 D GND
23 D GND
22 MIC R
21 MIC 5V
20 MIC 5V
19 MIC L
18 MIC GND
17 MIC GND
16 MIC GND
15 MIC R2
14 MIC L2
13 CR POWER
12 D GND
11 D GND
10 PLUG IN (L)
9 EXT MIC (L)
8 SUB REC
7 L/HP L
6 R/GND
5 V/HP R
4 D GND
3 D GND
2 WD REMO
1 WD REMO
FRONT JACK C.B.A.
FP4803
8
REG A5V 7
MIC OUT RF 6
MIC OUT RR 5
MIC OUT LF 4
MIC OUT LR 3
MIC GND 2
MIC GND 1
FP4801
7 REG A5V
6 MIC OUT RF
5 MIC OUT RR
4 MIC OUT LF
3 MIC OUT LR
2 MIC GND
1 MIC GND
MICRO PHONE
MIC C.B.A.
JK4901
JK4001
EXT MIC
AV IN/OUT PHONE
S-VIDEO IN/OUT
JK3001
SUB REC
SUB REC C.B.A.
PP2001
1 SYSTEM RST
2 AFST
3
4 E2 DATA
5
6 E2 CLK
7 M MOD0
8 EVR SBO
9 M MOD1
10 EVR SBI
11 VDDH
12 E2 CS
13 C EXMOD1
14
15
16 FNO
17 ND FNO
18 V UARTI
19 V UARTO
20 EVR SBT
21 VDDF
22 CAM RESET
23 P ON (L)
24 D GND
25 EX MOD1
26 C UARTO
27
28 C UARTI
29 VDDF ON (L)
30 CAMF VCC
EVR2
HALL SENSOR FLEX.
FP601
D GND 1
D GND 2
D GND 3
D GND 4
D GND 5
M G 6
M B 7
M R 8
VBLK 9
MON M G OUT 10
MON M R OUT 11
MON M B OUT 12
LCD CS 13
LCD SCK 14
LCD SD 15
M HD 16
BL CS 17
LCD 3V 18
LCD PLL 19
M 12V 20
LCD RVS 21
MON M PLL 22
M NOREG 23
M NOREG 24
NOREG GND 25
NOREG GND 26
FP903
25 D GND
24 D GND
23 D GND
22 D GND
21 M G
20 M B
19 M R
18 VBLK
17 MON M G OUT
16 MON M R OUT
15 MON M B OUT
14 LCD CS
13 LCD SCK
12 LCD SD
11 M HD
10 BL CS
9 LCD 3V
8 LCD PLL
7 M 12V
6 LCD RVS
5 MON M PLL
4 M NOREG
3 M NOREG
2 NOREG GND
1 NOREG GND
FP901
24
COM 23
V ST 22
V CK 21
EN 20
DWN 19
VDD 18
VSS 17
VDD G 16
VSS G 15
SLVSG 14
WIDE 13
H ST 12
REF 11
10
C/R 9
H CK2 8
H CK1 7
PSIG 6
G 5
R 4
B 3
RGT 2
1
MONITOR LCD PANEL
MONITOR C.B.A.
FP603
D GND 1
D GND 2
D GND 3
EVF H/L 4
EVF 13V 5
EVF BL 5V 6
X STV 7
STV 8
CKV2 9
CKV1 10
X ENB 11
EMB 12
X STH 13
STH 14
CKH2 15
CKH1 16
EVF B 17
EVF R 18
EVF G 19
COM 20
FP802
1 E COM
2 E G OUT
3 E R OUT
4 E B OUT
5 CKH1
6 CKH2
7 STH
8 X STH
9 ENB
10 X ENB
11 CKV1
12 CKV2
13 STV
14 X STV
15 EVF BL 5V
16 EVF 13V
17 EVF H/L
18 D GND
19 D GND
20 D GND
21 D GND
FP803
COM 19
CKV1 18
CKV2 17
V VDD 16
STV 15
X STV 14
CSV 13
ENB 12
X ENB 11
B 10
R 9
G 8
VSS 7
CSH 6
X STH 5
STH 4
CKH2 3
CKH1 2
H VDD 1
EVF LCD PANEL
EVF C.B.A.

(VEP04813B)



(COMPONENT SIDE)



(FOIL SIDE)

NOTE:MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

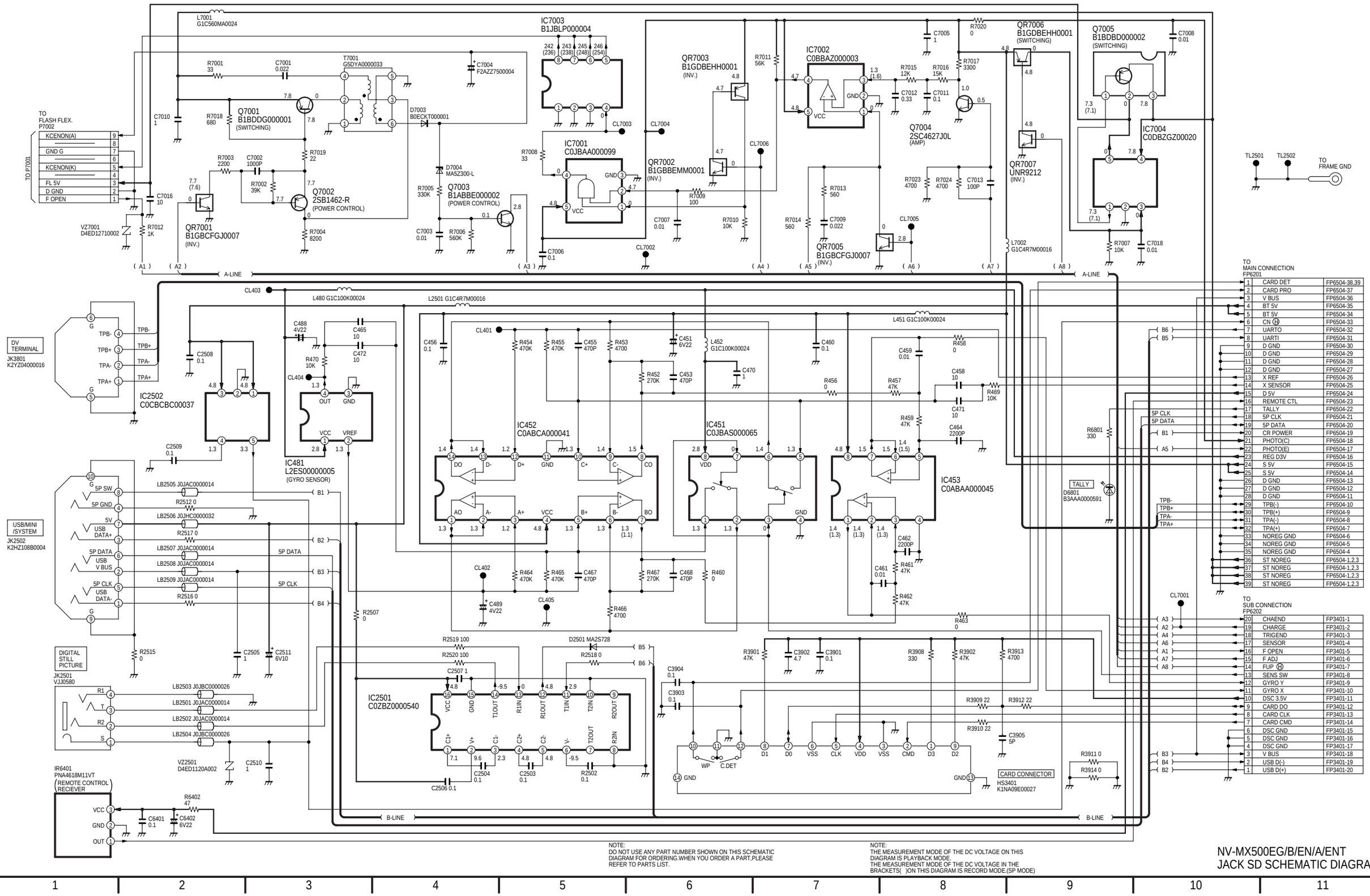
Jack SD C.B.A.

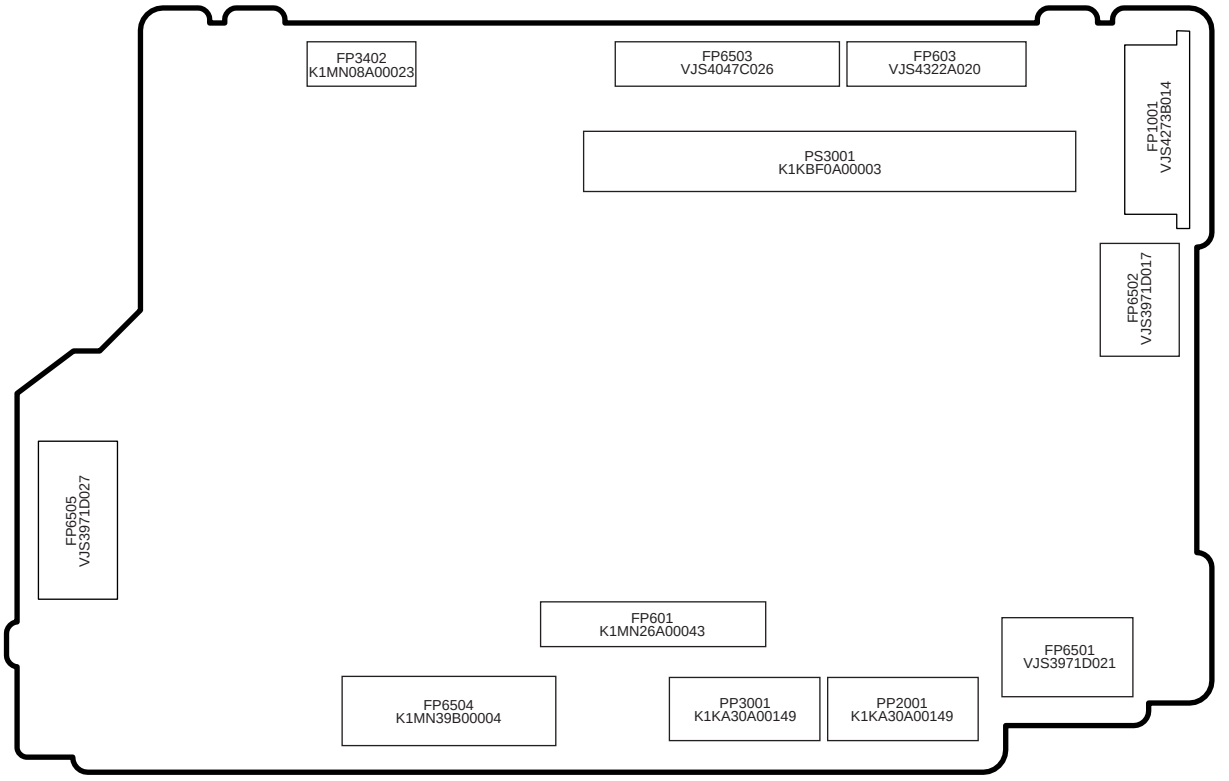
Integrated Circuit		**Ir Receiver**		C3901	B-5	R3909	B-5
IC451	B-3	IR6401	F-1	C3902	B-5	R3910	B-5
IC452	B-3	**Absorber**		C3903	B-5	R3911	A-5
IC453	B-3	VZ2501	D-3	C3904	C-5	R3912	B-5
IC481	D-3	VZ7001	E-5	C3905	B-5	R3913	B-5
IC2501	B-2	**Transformer**		C6401	F-1	R3914	A-3
IC2502	B-2	T7001	E-1	C6402	F-1	R6402	F-6
IC7001	E-6	**Coil**		C7001	D-7	R6801	F-6
IC7002	E-6	L451	B-3	C7002	E-6	R7001	D-7
IC7003	E-5	L452	B-3	C7003	E-7	R7002	E-6
IC7004	D-5	L480	D-4	C7004	E-1	R7003	E-6
Transistor		L2501	B-2	C7005	E-6	R7004	E-6
Q7001	D-6	L7001	D-6	C7006	E-6	R7005	E-7
Q7002	E-6	L7002	D-2	C7007	E-6	R7006	E-7
Q7003	D-7	LB2501	C-4	C7008	E-5	R7007	E-2
Q7004	E-6	LB2502	D-4	C7009	E-6	R7008	E-6
Q7005	D-5	LB2503	D-4	C7010	D-6	R7009	E-6
Transistor & Resistor		LB2504	D-4	C7011	E-6	R7010	E-6
QR7001	D-6	LB2505	E-5	C7012	E-6	R7011	E-6
QR7002	E-5	LB2506	F-2	C7013	E-6	R7012	E-5
QR7003	E-6	LB2507	E-5	C7016	E-5	R7013	E-6
QR7005	E-6	LB2508	F-5	C7018	D-5	R7014	E-6
QR7006	E-2	LB2509	E-5	**Resistor**		R7015	E-6
QR7007	E-2	**Capasitor**		R452	B-3	R7016	E-6
Test Point		C451	B-3	R453	B-3	R7017	E-6
CL401	C-3	C453	B-3	R454	B-3	R7018	D-6
CL402	D-5	C455	B-3	R455	B-3	R7019	D-6
CL403	E-4	C456	B-3	R456	B-3	R7020	E-6
CL404	D-4	C458	C-3	R457	B-3	R7023	E-6
CL405	F-6	C459	B-3	R458	B-3	R7024	E-6
CL7001	D-6	C460	B-3	R459	B-3		
CL7002	D-6	C461	B-3	R460	B-3		
CL7003	E-6	C462	B-3	R461	B-3		
CL7004	E-6	C464	B-3	R462	B-3		
CL7005	E-6	C465	C-3	R463	B-3		
CL7006	E-5	C467	B-3	R464	B-3		
TL2501	D-4	C468	B-3	R465	B-3		
TL2502	C-5	C470	B-3	R466	B-3		
Connector		C471	C-3	R467	B-3		
FP6201	C-5	C472	C-3	R469	C-3		
FP6202	A-2	C488	D-3	R470	C-3		
HS3401	B-6	C489	D-3	R2507	B-2		
P7002	E-5	C2502	A-2	R2512	E-3		
Jack		C2503	A-2	R2515	E-3		
JK2501	C-3	C2504	A-2	R2516	E-3		
JK2502	F-3	C2505	F-6	R2517	E-3		
JK3801	D-3	C2506	A-2	R2518	B-2		
Diode		C2507	B-2	R2519	B-2		
D2501	B-2	C2508	B-2	R2520	B-2		
D6801	F-2	C2509	B-2	R3901	B-5		
D7003	E-6	C2510	B-2	R3902	A-5		
D7004	E-7	C2511	F-2	R3908	A-5		

ADDRESS INFORMATION

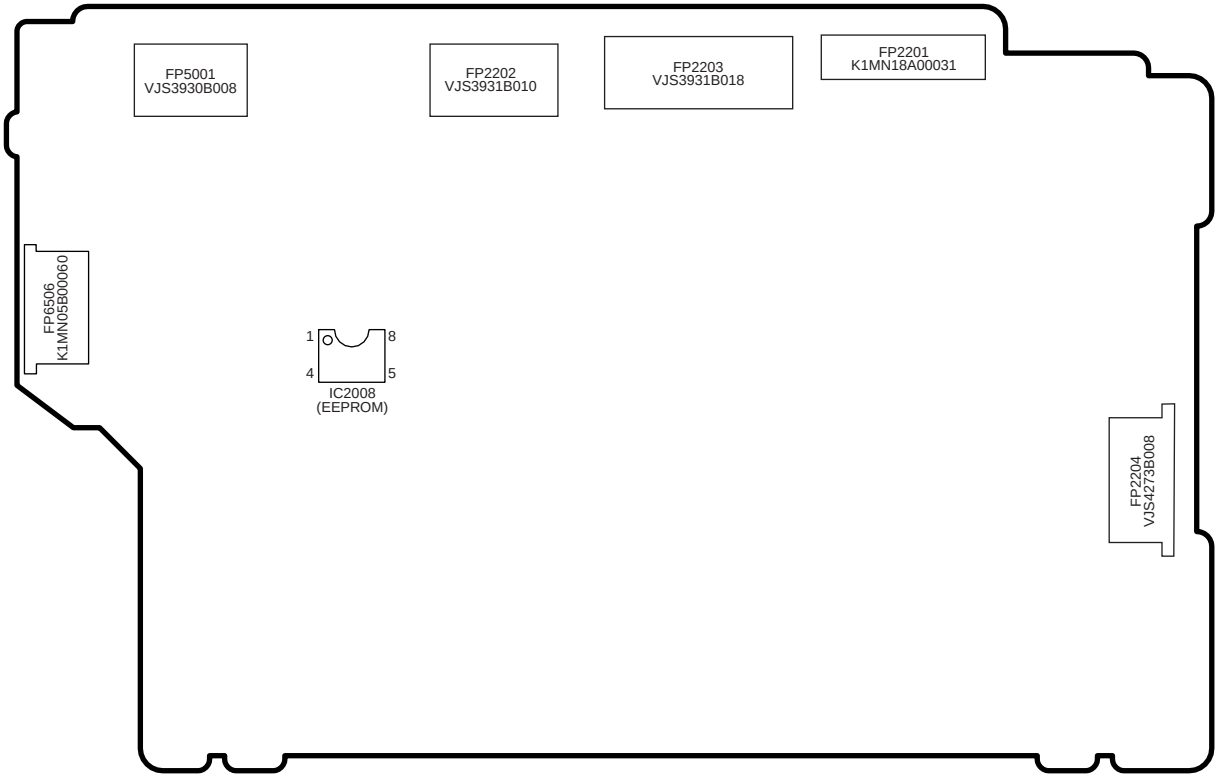
NV-MX500EG/B/EN/A/ENT
JACK SD C.B.A.

(JACK SD C.B.A.)


L7001 G1C560MA0024
IC7003 B1JBLP000004
Q7001 B1BDDG000001 (SWITCHING)
Q7002 2SB1462-R (POWER CONTROL)
Q7003 B1ABBE000002 (POWER CONTROL)
QR7001 B1GBCFGJ0007 (INV.)
QR7002 B1GBBEMM0001 (INV.)
QR7003 B1GDBEHH0001 (INV.)
IC7002 C0BBAZ000003
Q7004 2SC4627J0L (AMP)
QR7005 B1GBCFGJ0007 (INV.)
QR7006 B1GDBEHH0001 (SWITCHING)
QR7007 UNR9212 (INV.)
Q7005 B1BDBD000002 (SWITCHING)
IC7004 C0DBZGZ00020
IC7001 C0JBAA000099
L7002 G1C4R7M00016
TO FLASH FLEX. P7002
KCENON(A)
GND G
KCENON(K)
FL 5V
D GND
F OPEN
TO P7001
VZ7001 D4ED12710002
D7003 B0ECKT000001
D7004 MA5Z300-L
TL2501 TL2502
TO FRAME GND
A-LINE
CL403
L480 G1C100K00024
L2501 G1C4R7M00016
L451 G1C100K00024
DV TERMINAL
JK3801 K2YZ04000016
IC2502 C0CBCBC00037
IC481 L2ES00000005 (GYRO SENSOR)
IC452 C0ABCA000041
IC451 C0JBAS000065
IC453 C0ABAA000045
TALLY
D6801 B3AAA0000591
TO MAIN CONNECTION FP6201
CARD DET
CARD PRO
V BUS
BT 5V
BT 5V
CN H
UARTO
UARTI
D GND
D GND
D GND
D GND
X REF
X SENSOR
D 5V
REMOTE CTL
TALLY
5P CLK
5P DATA
CR POWER
PHOTO(C)
PHOTO(E)
REG D3V
S 5V
S 5V
D GND
D GND
D GND
TPB(-)
TPB(+)
TPA(-)
TPA(+)
NOREG GND
NOREG GND
NOREG GND
ST NOREG
ST NOREG
ST NOREG
ST NOREG
USB/MINI /SYSTEM
JK2502 K2HZ108B0004
LB2505 J0JAC0000014
LB2506 J0JHC0000032
LB2507 J0JAC0000014
LB2508 J0JAC0000014
LB2509 J0JAC0000014
5P SW
5P GND
5V
USB DATA+
5P DATA
USB V BUS
5P CLK
USB DATA-
DIGITAL STILL PICTURE
JK2501 VJJ0580
LB2503 J0JBC0000026
LB2501 J0JAC0000014
LB2502 J0JAC0000014
LB2504 J0JBC0000026
VZ2501 D4ED1120A002
IR6401 PNA4618M11VT (REMOTE CONTROL RECIEVER)
IC2501 C0ZBZ0000540
CARD CONNECTOR HS3401 K1NA09E00027
TO SUB CONNECTION FP6202
CHAEND
CHARGE
TRIGEND
SENSOR
F OPEN
F ADJ
FUP H
SENS SW
GYRO Y
GYRO X
DSC 3.5V
CARD DO
CARD CLK
CARD CMD
DSC GND
DSC GND
DSC GND
V BUS
USB D(-)
USB D(+)
B-LINE
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
NV-MX500EG/B/EN/A/ENT
JACK SD SCHEMATIC DIAGRAM



（COMPONENT SIDE）

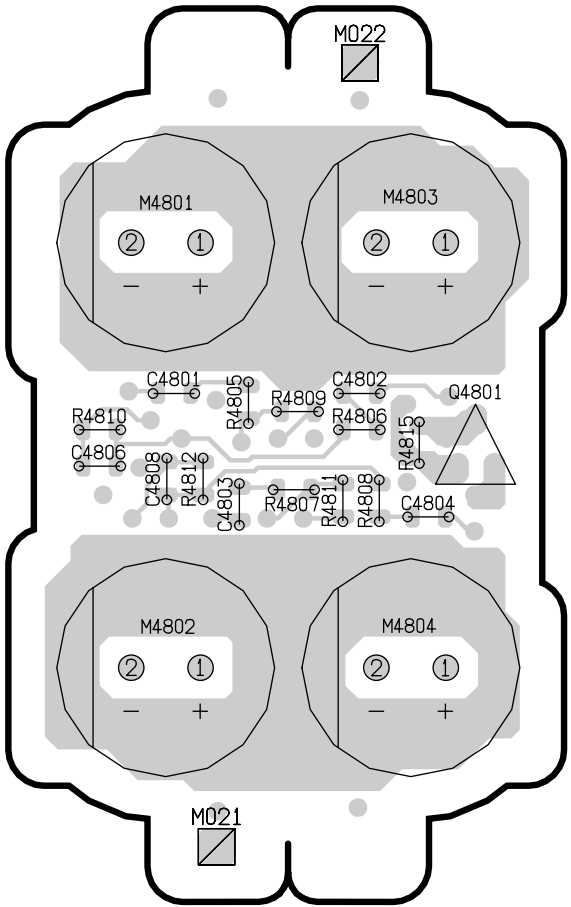


(FOIL SIDE)

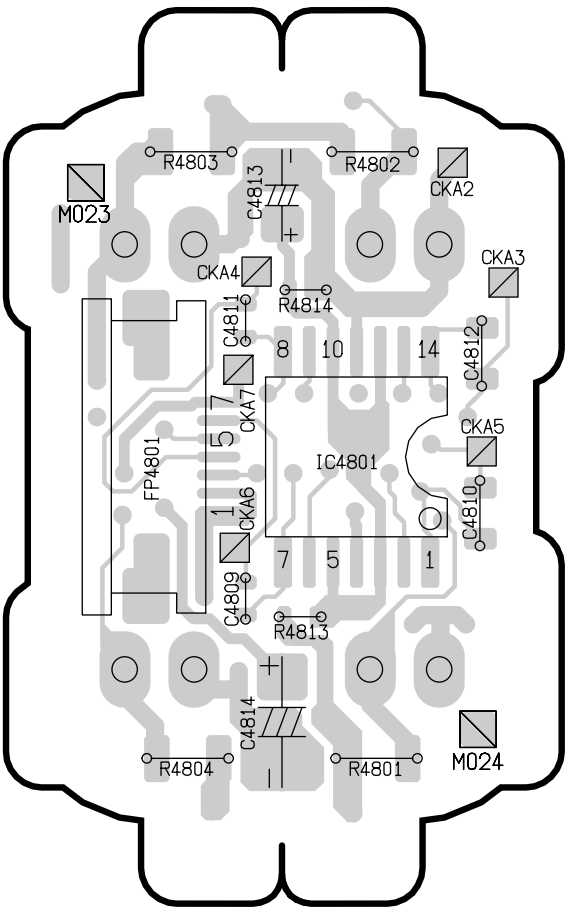
NOTE:MULTILAYER C.B.A.

THIS C.B.A. IS Multi-Layer C.B.A. THIS CIRCUIT BOARD SHOWS COMPONENT LAYOUT-PATTERN FOR COMPONENT SIDE AND FOIL SIDE. LAYOUT-PATTERNS ARE SINGLE PATTERN FOR EACH SIDE THAT MAKE EASY TO SIGHT THE COMPONENT LAYOUT.

(VEP04814A)



(COMPONENT SIDE)

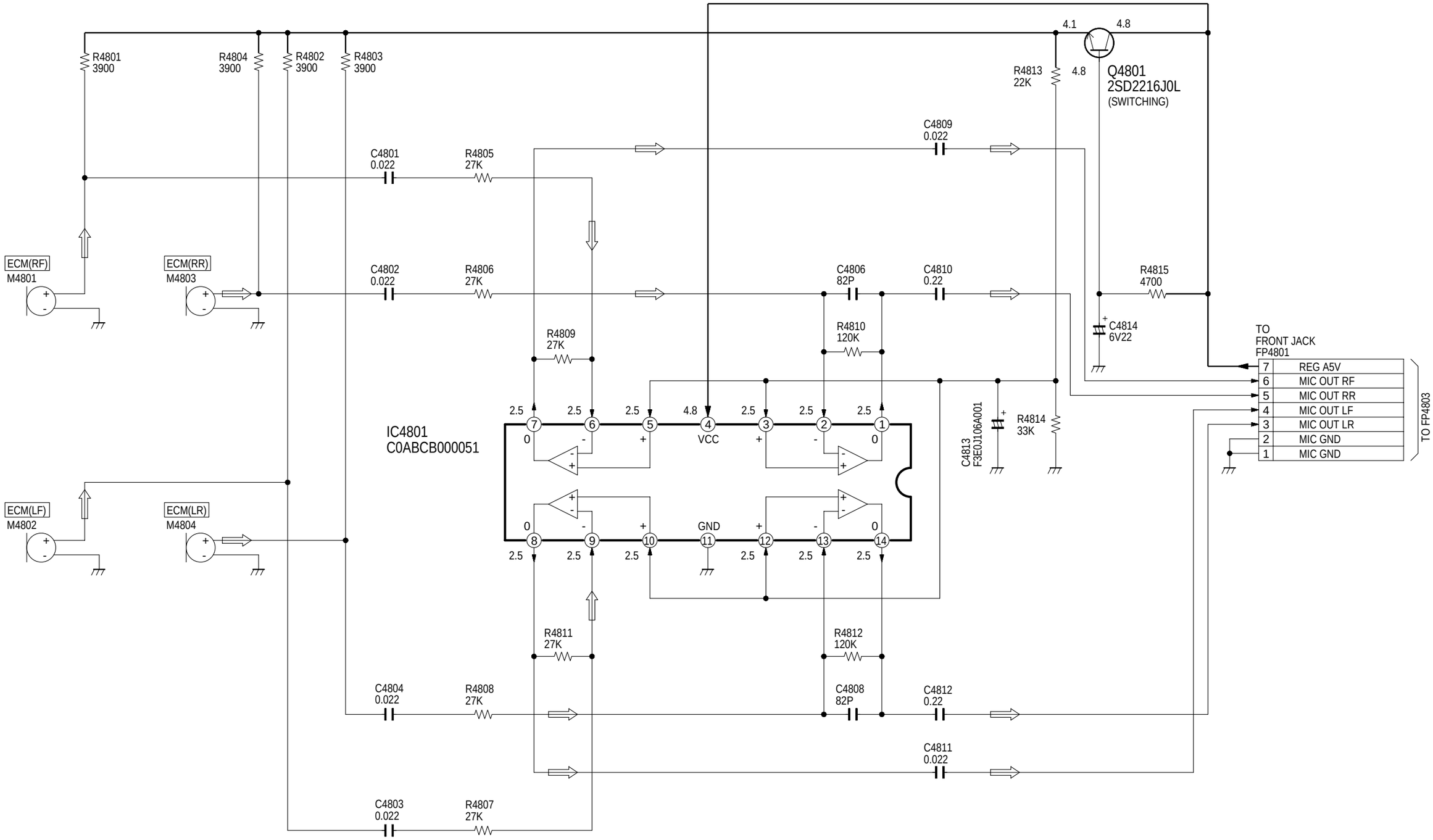


(FOIL SIDE)

NV-MX500EG/B/EN/A/ENT
MIC C.B.A.

(MIC C.B.A.)

:AUDIO MAIN SIGNAL PATH



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NV-MX500EG/B/EN/A/ENT
MIC SCHEMATIC DIAGRAM

D C B A

1 2 3 4 5 6

Monitor C.B.A.

Integrated Circuit	
IC901	C-2
IC902	D-2
Transistor	
Q901	E-2
Q902	C-4
Q903	C-4
Q904	E-4
Q907	B-2
Q908	B-3
Transistor & Resistor	
QR902	E-4
QR906	D-2
Test Point	
TL901	E-4
TL902	B-1
TL903	D-4
TL904	E-1
Connector	
FP901	B-4
FP903	D-3
Diode	
D901	D-2
D902	C-4
D903	D-4
D905	D-2
D906	C-3
D907	C-3
D908	B-4
D909	B-3
D910	D-2
D911	D-2
Transformer	
T901	C-3
T902	D-3
Coil	
L901	D-3
L902	D-2
L903	B-2
L905	D-4
L907	C-2
LB901	D-2
Capasitor	
C901	B-3
C902	B-2
C904	B-3
C905	D-3
C906	C-2
C907	D-2
C908	C-2
C909	D-3
C910	C-1
C911	C-1
C912	D-1
C913	C-1
C914	C-3
C915	D-3
C916	B-3
C917	B-2
C918	B-3
C919	D-2
C920	C-2
C921	C-4
C922	B-2
C923	E-4
C926	B-2
C927	C-2
C928	D-2
C931	C-2
C932	D-2
C933	B-4
C934	D-2
C935	C-2
C947	C-3
C949	C-4
C950	B-4
C952	B-3
Resistor	
R901	D-2
R902	D-2
R903	D-2
R904	B-3
R905	C-2
R906	D-2
R907	D-2
R909	D-2
R911	C-4
R912	C-1
R913	C-2
R914	C-2
R915	D-2
R916	D-2
R917	D-2
R918	C-2
R919	B-2
R922	C-4
R923	E-2
R924	D-1
R925	C-4
R926	C-4
R927	C-4
R928	C-3
R929	E-4
R930	D-2
R931	C-2
R932	C-2
R933	C-2
R934	B-2
R935	B-2
R936	C-3
R937	C-3
R938	D-2
R939	C-2
R940	C-2
R941	B-3
R942	B-2
R943	B-3
R944	D-2
R945	B-3
R946	B-3
R947	B-3
R948	B-3
R950	B-3
R951	B-1
R952	B-3
R953	B-4
R973	E-4
R974	E-4
R975	E-4
R976	D-4
R977	D-4
R978	C-3
R989	C-4

ADDRESS INFORMATION

(MONITOR C.B.A.)

:VIDEO MAIN SIGNAL PATH

TO MAIN CONNECTION FP903

FP601-1,2,3,4,5	D GND	25
FP601-1,2,3,4,5	D GND	24
FP601-1,2,3,4,5	D GND	23
FP601-1,2,3,4,5	D GND	22
FP601-6	M G	21
FP601-7	M B	20
FP601-8	M R	19
FP601-9	VBLK	18
FP601-10	MON M G OUT	17
FP601-11	MON M R OUT	16
FP601-12	MON M B OUT	15
FP601-13	LCD CS	14
FP601-14	LCD SCK	13
FP601-15	LCD SD	12
FP601-16	M HD	11
FP601-17	BL CS	10
FP601-18	LCD 3V	9
FP601-19	LCD PLL	8
FP601-20	M 12V	7
FP601-21	LCD RVS	6
FP601-22	MON M PLL	5
FP601-23,24	M NOREG	4
FP601-23,24	M NOREG	3
FP601-25,26	NOREG GND	2
FP601-25,26	NOREG GND	1

R945 820 (A1), R943 820 (A2), R942 820 (A3), (A4), R912 100 (A5), R913 100 (A6), R914 100 (A7), R936 1k (A8), (A9), (A10), R941 1k (A11), R901 1k (A12), R938 100K, R918 1k (A13)

IC991 DN8797MS (FORWARD/REVERS)

HALL SENSOR FLEX.

TO MONITOR LCD PANEL FP901

	24
COM	23
V ST	22
V CK	21
EN	20
DWN	19
VDD	18
VSS	17
VDD G	16
VSS G	15
SLVSG	14
WIDE	13
H ST	12
REF	11
	10
C/R	9
H CK2	8
H CK1	7
PSIG	6
G	5
R	4
B	3
RGT	2
	1

(A14), (A15), (A16), (A17), (A18), (A19), (A20), (A21), (A22), (A23), (A24)

D909 MAZ80430M, C952 0.1, R953 120K, C933 0.47, C904 0.01, C901 0.1, D908 MAZ80270L

TO FRAME GND, TL903, TL904

R907 47, Q901 2SA1832FY (SWITCHING), R924 2700, R923 47K, D911 MA2J11100L, D905 B0BC6R100014, QR906 UN9214J (POWER CONTROL), R944 820, R930 10K, D901 MA2X33800L, C932 220P, C934 0.01, R933 33K, C935 6800P, R931 10K, C907 6V3.3

L905 G1C100K00020

Q908 XP0460100L (AMP), Q907 XP0460100L (AMP), R950 27K, R934 2700, R919 10K, C922 1, R935 27K, R952 10K

C950 1, C949 10, T901 ETJ09K59AZ, C947 0.1, R978 3.3M

Q902 B1DFCG000004 (BACKLIGHT CONTROL), R989 100K, R911 560, D902 MA2J11100L

Q903 2SA1832FY (AMP), R927 47K, R922 100K, R925 33K, C921 1000P, R926 12K

T902 EFTU21R203, TL901, TL902, R973 3.3M, R974 3.3M, R975 12K, R977 0, R976 820

TO BACKLIGHT

QR902 UN9214J (INV.), D903 MA2J11100L, C923 3300P, R929 12K

Q904 2SD2216J0L (AMP)

L902 G1C100K00020, L903 G1C100K00020, R906 0, C902 4V47, C926 0.1

C906 4.7, R951 0, C913 0.47

IC901 C0HBA0000071 (LCD DRIVE)

VSS, VSS, TST10, TST9, TST8, TST7, TST6, TST5, NC, POF, TST4, GND3, VCOM, VCC3, TST3, POUT, FBP, VCC2

VDD, TST11, OSDB, OSDR, OSDG, NC, HCK1, HCK2, VCC1, HST, EN, VCK, VST, RGT, FILIN, BIN, GIN, RIN

GOUT, FBG, ROUT, FBR, BOUT, FBB, SIGC, GND2, TST2, HDO, VDO, XRST, RPD, VSS, CKI, CKO, VDD, VDD

OSD RGB, CONTRAST, TRAP, LPF, FILTER BIAS, S/H, USER-BRIGHT, GAMMA, CLAMP, BLK-LIM, SUB-BRIGHT, U-BRT, WHITLIM, SUB-CONT R, SUB-CONT B, BLKLIM, SUB-BRT R, SUB-BRT B, POL SW, S/H GEN, HCK GEN, HCOUNTER HPULSE GEN, MODE, MATRIX, PICTURE, PIC-F, DL1, DL1, HUE, HUE COLOR, CLAMP, CLP, PSIG-BRT, BUF, PSIG-BRIGHT, POL SW, COM-DC, SIG.C, PLL COUNTER, PULSE ELM, V CONTROL V POSITION, V COUNTER, V SEP, HDO GEN, VDO GEN, PHASE COMPARATOR, HSYNC DET H SKEW DET, CK CONTROL, CLK, MCK, S/P CONV REGISTER DAC, H.FILTER, SYNC SEP, MODE, DA BUF, REF BUF

VSS, FLOUT, SYNCIN, SYNCOUT, HD, DA, REF, FADJ, GND1, VD, DWN, WIDE, TST1, SCLK, SEN, SDAT, RINJECT, VSS

R946 1800, R948 1800, R947 1800, R939 10K, R940 10K, R937 1K, R928 1K, R917 1K, R910 B0JEEE000001, R907 B0JEEE000001, R906 B0JEEE000001, R904 33K, R905 15K, C931 39P, L907 G1C3R3J00009, R932 1K, C927 1

C916 0.01, C918 0.01, C917 0.01, C928 560P, R902 0, LB901 VLF1144A102, R916 47K

IC902 MN7L012B5MF

AIN2, AVSS, DVSS, VOLSEL, VDO, VDI, ADMODE, CTL3, CTL2, CTL1

AIN1, AVDD, DVDD, PZORV, OSCOUT, OSCIN, SCLK, DATA, CS, RST

C905 6V10, C909 0.1, L901 G1C3R3J00009, C914 47P, C915 47P, R915 0, R903 0, R909 56K, C919 0.1

C911 0.47, C910 0.47, C912 0.47, C908 0.01, C920 0.01, C927 1

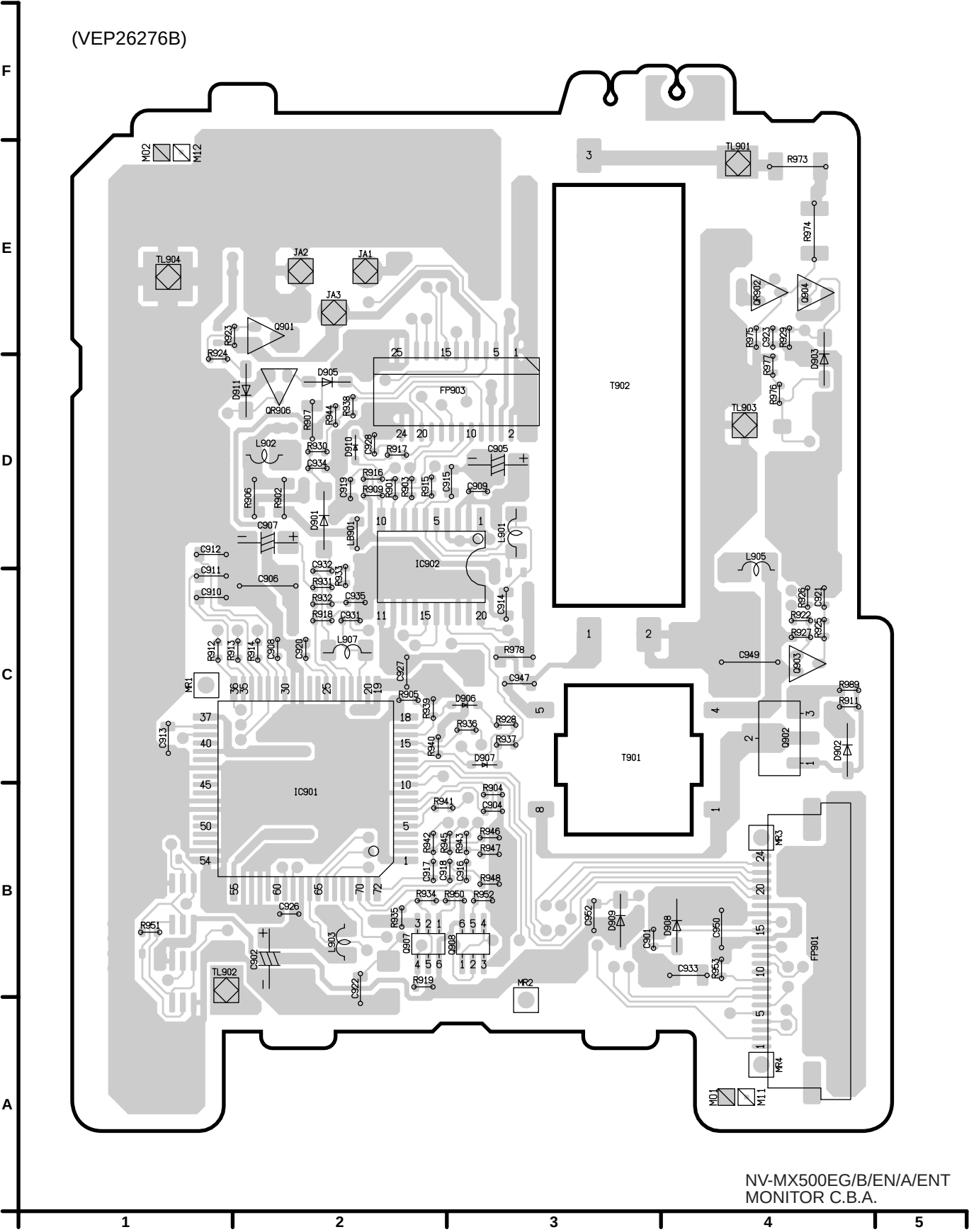
(A5), (A6), (A7), (A13), (A11), (A20), (A17), (A18), (A8), (A12)

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:ON)

NV-MX500EG/B/EN/A/ENT
MONITOR & HALL SENSOR FLEX.
SCHEMATIC DIAGRAM

(VEP26276B)



NV-MX500EG/B/EN/A/ENT
MONITOR C.B.A.

LENS UNIT

HOTSHOE

FLASH

SD/MMC

SPEAKER

MIC

EXT MIC

MIC C.B.A.

IC4801
(AMP)

ZOOM/FOCUS

IRIS

OIS

CCD

SENSOR

IC107,108
(V DR)

IC104
CDS/AGC
/AD

IC101
(CG/SSG)

X101
2FCK OSC
(54MHz)

PROCESS

IC303
(DSP)

IC307
(EEPROM)

IC305
(CAMERA MICROCOMPUTER)

LENS DRIVE

IC701
(LPF)

IC702
(LENS DRIVE)

IC704
(OIS DRIVE)

SUB C.B.A.

DSC

IC3456
TI DSP
(MPEG4/VOICE
COMPRESSION/EXPANSION,
JPEG(MPEG)
COMPRESION
PROCESSOR)

IC3451
(SD I/F)

IC3452
(16M FLASH
MEMORY)

IC3457
(64M SDRAM)

IC3453
DSC MICROCOMPUTER
(JPEG COMPRESSION/EXPANSION
JPEG(MPEG)COMPRESSION,
DSC CONTROL)

IC3455
(USB DRIVE)

AV IN/OUT
HP OUT

USB
TERMINAL

S VIDEO
IN/OUT

EX INPUT

IC3501
(EXT INPUT)

IC3502
IC3503,3504
(SW & AMP)

VIDEO1

IC3001
TOPS
(VIDEO I/O,VCO,COMPRESSOR,
SHUFFLE,SHUFFLE MEMORY,
AUDIO PROCESSOR,ECC,
ECC MEMORY)

IC3004
(AUDIO AD/DA)

IC3002
(AV DRIVER)

VIDEO2

IC3202
PLANET
(DIGITAL I/F)

IC3201
RIO
(MODULATION,VITERBI,EQ)

DV
TERMINAL

HEAD

CYLINDER
MOTOR

HEAD/REC AMP

IC5001
(HEAD/REC AMP)

EVF C.B.A.

0.44"LCD

LCD

IC601
(LCD CONTROLLER &
SIGNAL PROCESSOR)

POWER

IC1001
(POWER)

CONTROL

IC2001
(CONTROL
MICROCOMPUTER)

IC2010
(COMP)

IC2008
(EEP ROM)

IC2007
(RTC)

CAPSTAN
MOTOR

DRIVE

IC2201
(CYL/CAP/LOADING
MOTOR DRIVE)

LOADING
MOTOR

3.5"LCD

IC901
(LCD CONTROLLER &
SIGNAL PROCESSOR)

MONITOR C.B.A.

JACK SD C.B.A.

IC2501
(RS232C DRIVE)

RS232C
TERMINAL

MAIN C.B.A.

NV-MX500EG/B/EN/A/ENT
OVERALL SCHEMATIC DIAGRAM

(PRISM UNIT)

:VIDEO MAIN SIGNAL PATH

CL203
CL202
CL201

C207 0.1
C208 0.1
C209 0.1

D203 MA3Z14300LG
D202 MA3Z14300LG
D201 MA3Z14300LG

IC203 C4AZJ0000003
IC202 C4AZJ0000003
IC201 C4AZJ0000003

(B) (R) (G)

C202 1
C204 1
C206 1

Q203 2SC4627JCL (AMP)
Q202 2SC4627JCL (AMP)
Q201 2SC4627JCL (AMP)

R219 10K
R221 10K
R223 10K

C212 1
C213 1
C214 1

R205 1500
R203 1500
R201 1500

R202 680
R220 12K
R204 680
R222 12K
R206 680
R224 12K

Q204 2SC4627JCL
Q205 2SC4627JCL
Q206 2SC4627JCL

R211 10K
R210 12K
C201 0.1
C217 1
R212 680

R214 10K
R213 12K
C203 0.1
C216 1
R215 680

R217 10K
R216 12K
C205 0.1
C215 1
R218 680

A-LINE

TO SUB CONNECTION PP201

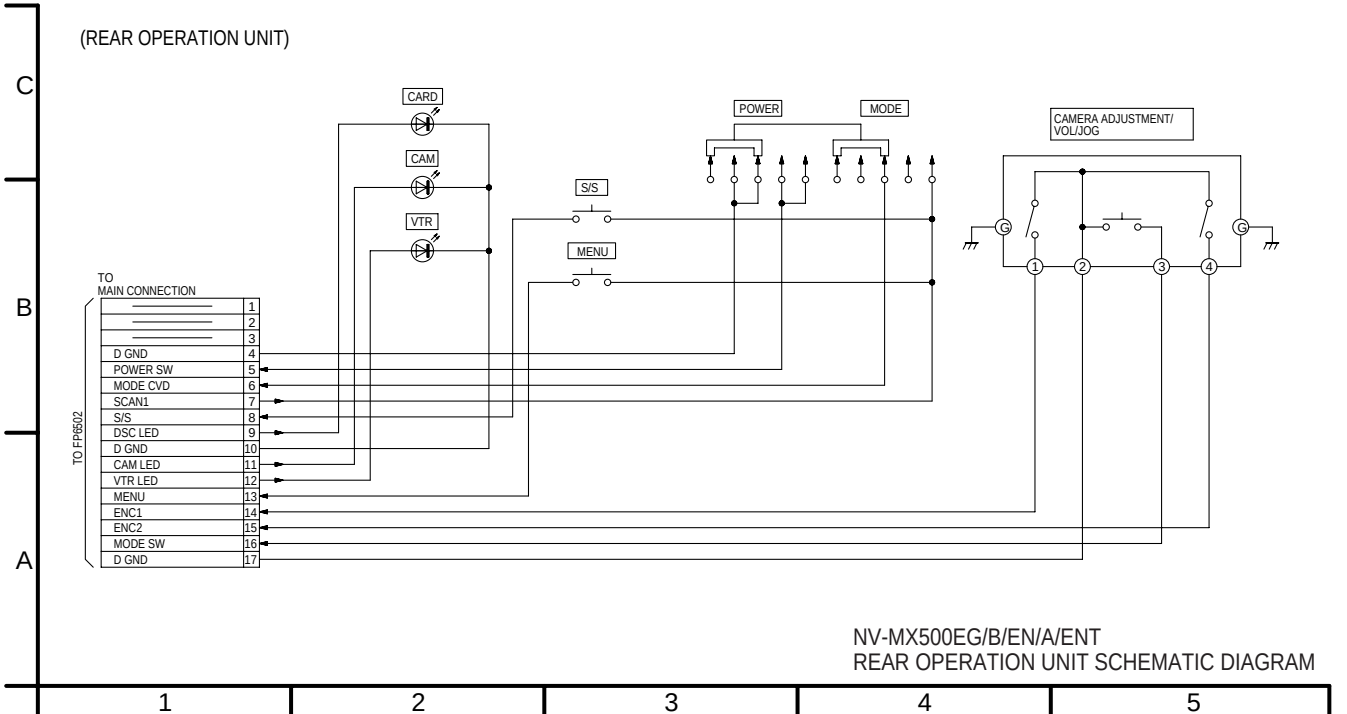
40	A GND	
39	-8V	
38	-8V	
37	5V RG	
36	5V RG	
35	SUB G	A21
34	H2 R	A12
33	H1 R	A13
32	SUB R	A14
31	R	
30	A GND	
29	SIG R	
28	A GND	
27	A GND	
26	V4 B	A1
25	V3 B	A2
24	V2 B	A3
23	V1 B	A4
22	SUB B	A7
21	A GND	
20	SIG B	
19	A GND	
18	H1 B	A6
17	H2 B	A5
16	5V B	
15	5V B	
14	V4 R	A8
13	V3 R	A9
12	V2 R	A10
11	V1 R	A11
10	V1 G	A18
9	V2 G	A17
8	V3 G	A16
7	V4 G	A15
6	H1 G	A20
5	H2 G	A19
4	15V	
3	15V	
2	A GND	
1	SIG G	

TO PS201

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

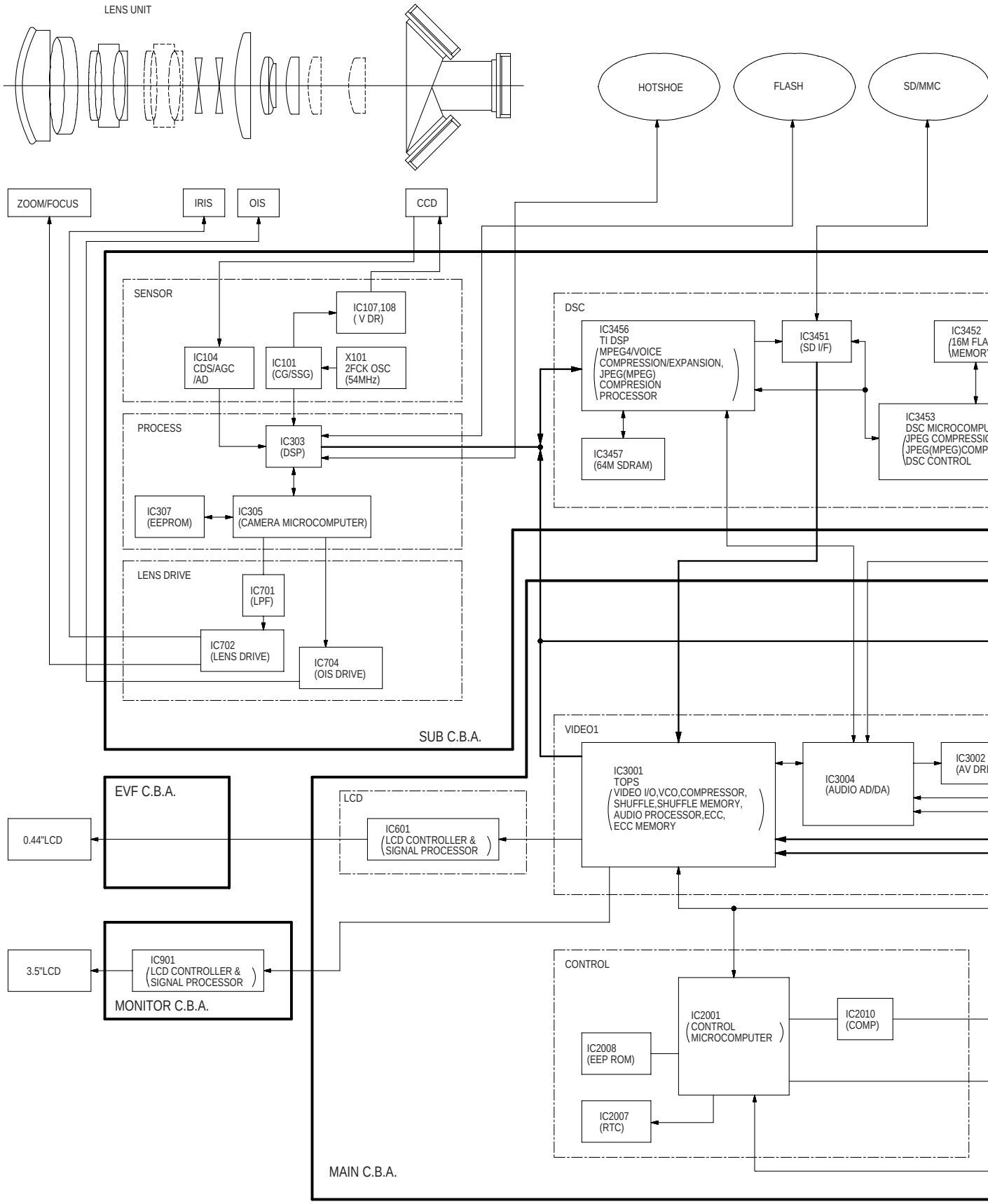
NV-MX500EG/B/EN/A/ENT
PRISM UNIT SCHEMATIC DIAGRAM

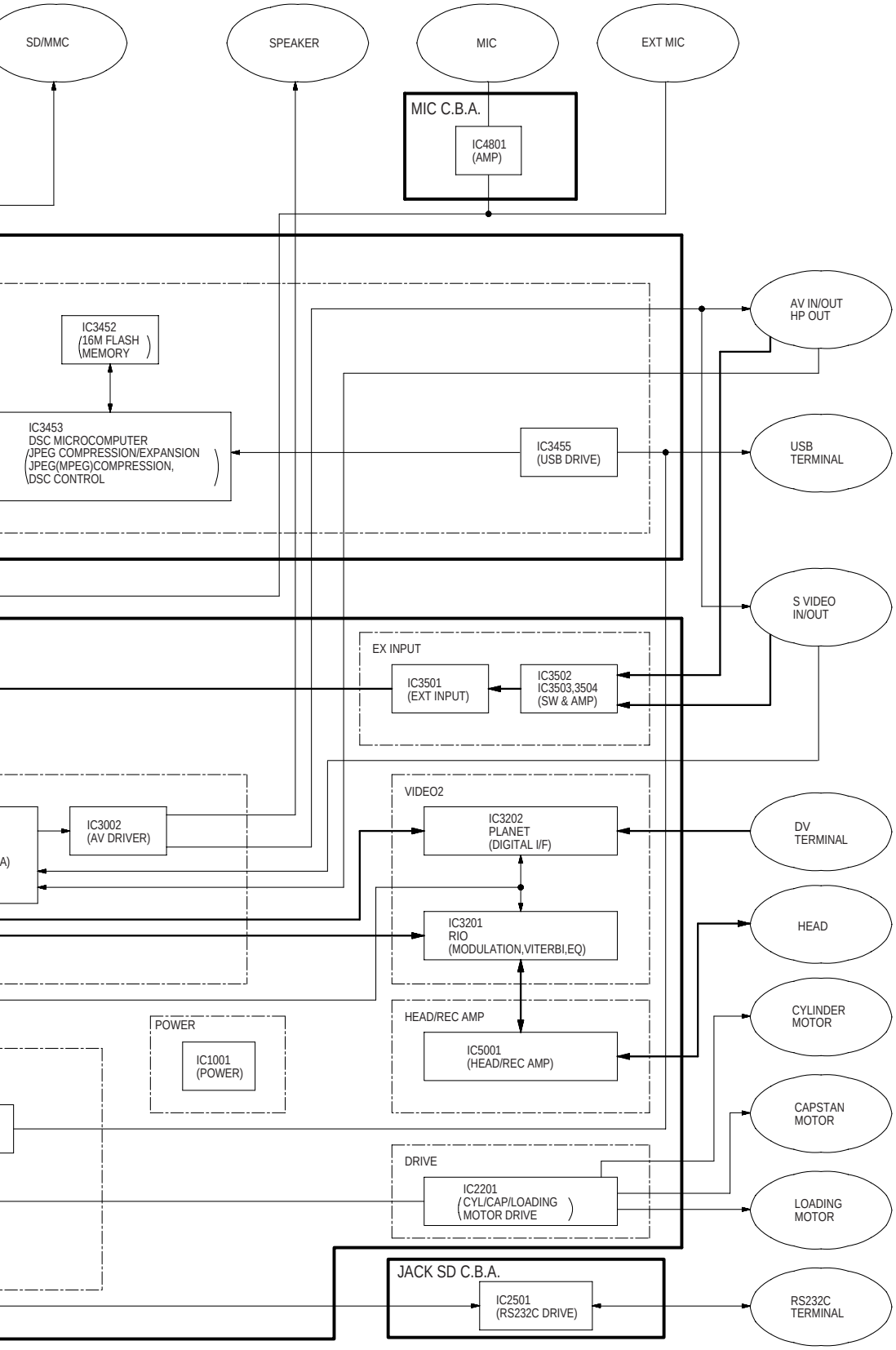


NV-MX500EG/B/EN/A/ENT
REAR OPERATION UNIT SCHEMATIC DIAGRAM

11 SCHEMATIC DIAGRAMS

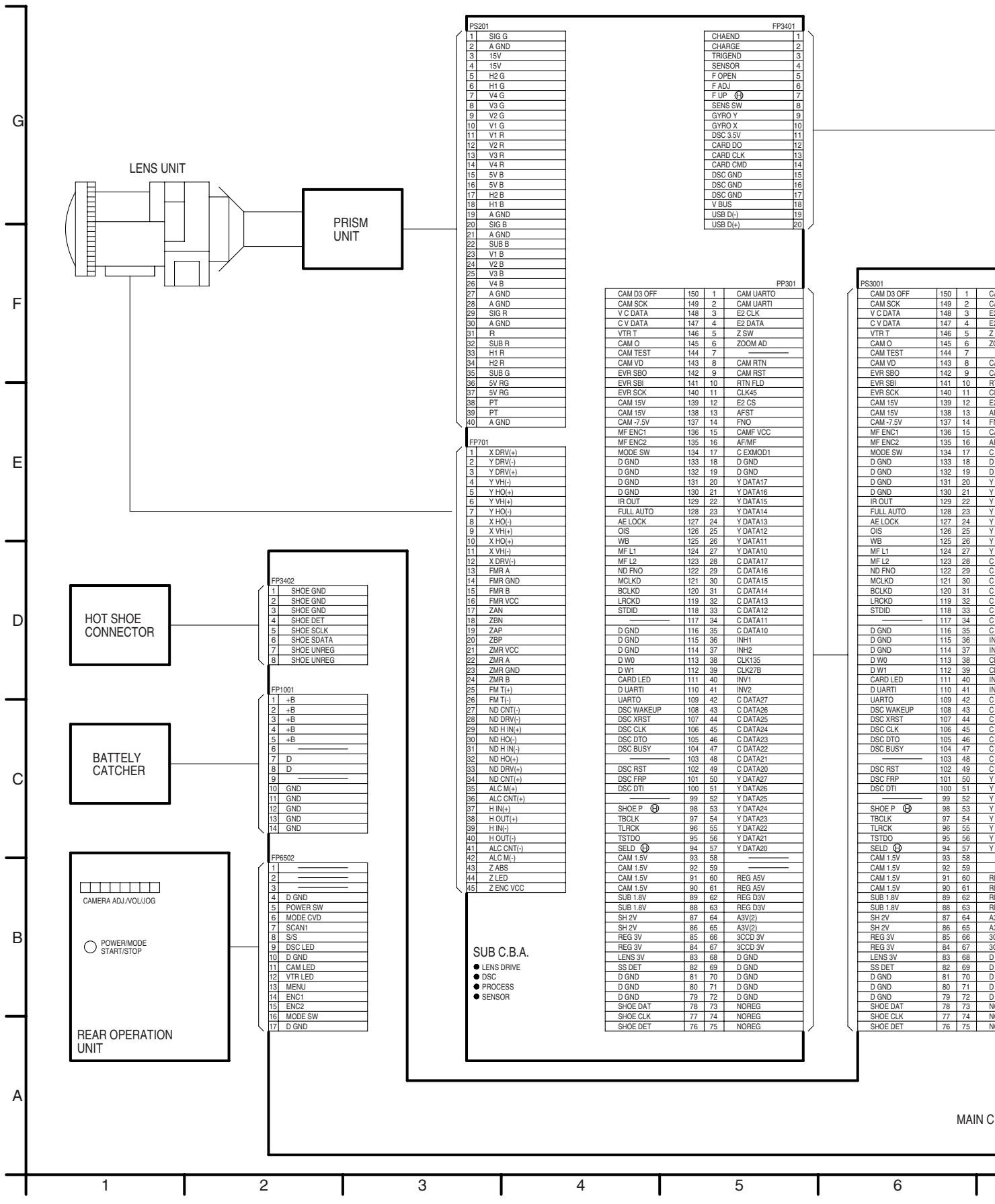
11.1. OVERALL SCHEMATIC DIAGRAM





NV-MX500EG/B/EN/A/ENT
OVERALL SCHEMATIC DIAGRAM

11.2. INTERCONNECTION SCHEMATIC DIAGRAM



PS201

1	SIG G
2	A GND
3	15V
4	15V
5	H2 G
6	H1 G
7	V4 G
8	V3 G
9	V2 G
10	V1 G
11	V1 R
12	V2 R
13	V3 R
14	V4 R
15	5V B
16	5V B
17	H2 B
18	H1 B
19	A GND
20	SIG B
21	A GND
22	SUB B
23	V1 B
24	V2 B
25	V3 B
26	V4 B
27	A GND
28	A GND
29	SIG R
30	A GND
31	R
32	SUB R
33	H1 R
34	H2 R
35	SUB G
36	5V RG
37	5V RG
38	PT
39	PT
40	A GND

FP3401

CHAEND	1
CHARGE	2
TRIGEND	3
SENSOR	4
F OPEN	5
F ADJ	6
F UP Ⓗ	7
SENS SW	8
GYRO Y	9
GYRO X	10
DSC 3.5V	11
CARD DO	12
CARD CLK	13
CARD CMD	14
DSC GND	15
DSC GND	16
DSC GND	17
V BUS	18
USB D(-)	19
USB D(+)	20

FP701

1	X DRV(+)
2	Y DRV(-)
3	Y DRV(+)
4	Y VH(-)
5	Y HO(+)
6	Y VH(+)
7	Y HO(-)
8	X HO(-)
9	X VH(+)
10	X HO(+)
11	X VH(-)
12	X DRV(-)
13	FMR A
14	FMR GND
15	FMR B
16	FMR VCC
17	ZAN
18	ZBN
19	ZAP
20	ZBP
21	ZMR VCC
22	ZMR A
23	ZMR GND
24	ZMR B
25	FM T(+)
26	FM T(-)
27	ND CNT(-)
28	ND DRV(-)
29	ND H IN(+)
30	ND HO(-)
31	ND H IN(-)
32	ND HO(+)
33	ND DRV(+)
34	ND CNT(+)
35	ALC M(+)
36	ALC CNT(+)
37	H IN(+)
38	H OUT(+)
39	H IN(-)
40	H OUT(-)
41	ALC CNT(-)
42	ALC M(-)
43	Z ABS
44	Z LED
45	Z ENC VCC

PP301

CAM D3 OFF	150	1	CAM UARTO
CAM SCK	149	2	CAM UARTI
V C DATA	148	3	E2 CLK
C V DATA	147	4	E2 DATA
VTR T	146	5	Z SW
CAM O	145	6	ZOOM AD
CAM TEST	144	7	———
CAM VD	143	8	CAM RTN
EVR SBO	142	9	CAM RST
EVR SBI	141	10	RTN FLD
EVR SCK	140	11	CLK45
CAM 15V	139	12	E2 CS
CAM 15V	138	13	AFST
CAM -7.5V	137	14	FNO
MF ENC1	136	15	CAMF VCC
MF ENC2	135	16	AF/MF
MODE SW	134	17	C EXMOD1
D GND	133	18	D GND
D GND	132	19	D GND
D GND	131	20	Y DATA17
D GND	130	21	Y DATA16
IR OUT	129	22	Y DATA15
FULL AUTO	128	23	Y DATA14
AE LOCK	127	24	Y DATA13
OIS	126	25	Y DATA12
WB	125	26	Y DATA11
MF L1	124	27	Y DATA10
MF L2	123	28	C DATA17
ND FNO	122	29	C DATA16
MCLKD	121	30	C DATA15
BCLKD	120	31	C DATA14
LRCKD	119	32	C DATA13
STDID	118	33	C DATA12
———	117	34	C DATA11
D GND	116	35	C DATA10
D GND	115	36	INH1
D GND	114	37	INH2
D W0	113	38	CLK135
D W1	112	39	CLK27B
CARD LED	111	40	INV1
D UARTI	110	41	INV2
UARTO	109	42	C DATA27
DSC WAKEUP	108	43	C DATA26
DSC XRST	107	44	C DATA25
DSC CLK	106	45	C DATA24
DSC DTO	105	46	C DATA23
DSC BUSY	104	47	C DATA22
———	103	48	C DATA21
DSC RST	102	49	C DATA20
DSC FRP	101	50	Y DATA27
DSC DTI	100	51	Y DATA26
———	99	52	Y DATA25
SHOE P Ⓗ	98	53	Y DATA24
TBCLK	97	54	Y DATA23
TLRCK	96	55	Y DATA22
TSTDO	95	56	Y DATA21
SELD Ⓗ	94	57	Y DATA20
CAM 1.5V	93	58	———
CAM 1.5V	92	59	———
CAM 1.5V	91	60	REG A5V
CAM 1.5V	90	61	REG A5V
SUB 1.8V	89	62	REG D3V
SUB 1.8V	88	63	REG D3V
SH 2V	87	64	A3V(2)
SH 2V	86	65	A3V(2)
REG 3V	85	66	3CCD 3V
REG 3V	84	67	3CCD 3V
LENS 3V	83	68	D GND
SS DET	82	69	D GND
D GND	81	70	D GND
D GND	80	71	D GND
D GND	79	72	D GND
SHOE DAT	78	73	NOREG
SHOE CLK	77	74	NOREG
SHOE DET	76	75	NOREG

FP3402

1	SHOE GND
2	SHOE GND
3	SHOE GND
4	SHOE DET
5	SHOE SCLK
6	SHOE SDATA
7	SHOE UNREG
8	SHOE UNREG

FP1001

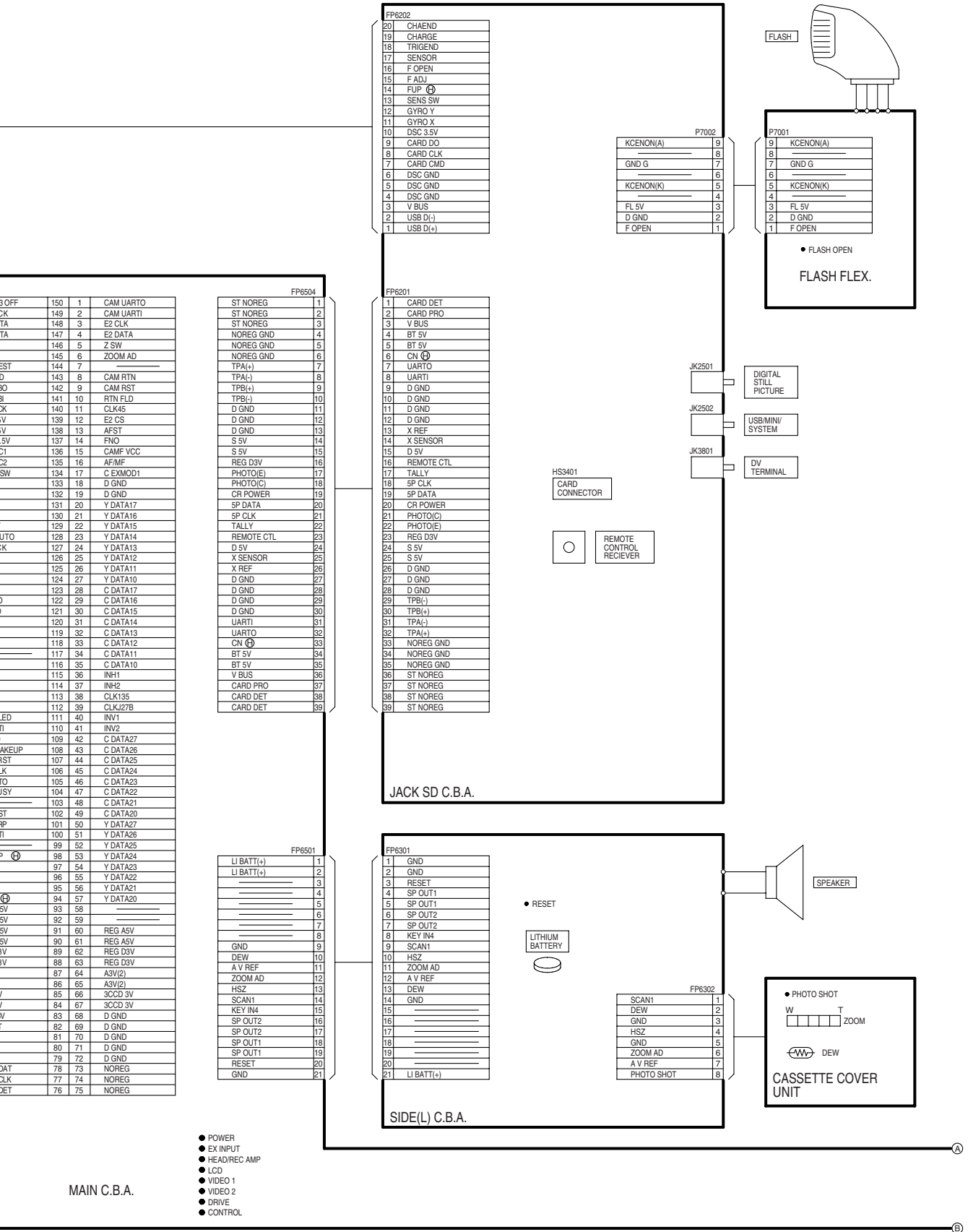
1	+B
2	+B
3	+B
4	+B
5	+B
6	———
7	D
8	D
9	———
10	GND
11	GND
12	GND
13	GND
14	GND

FP6502

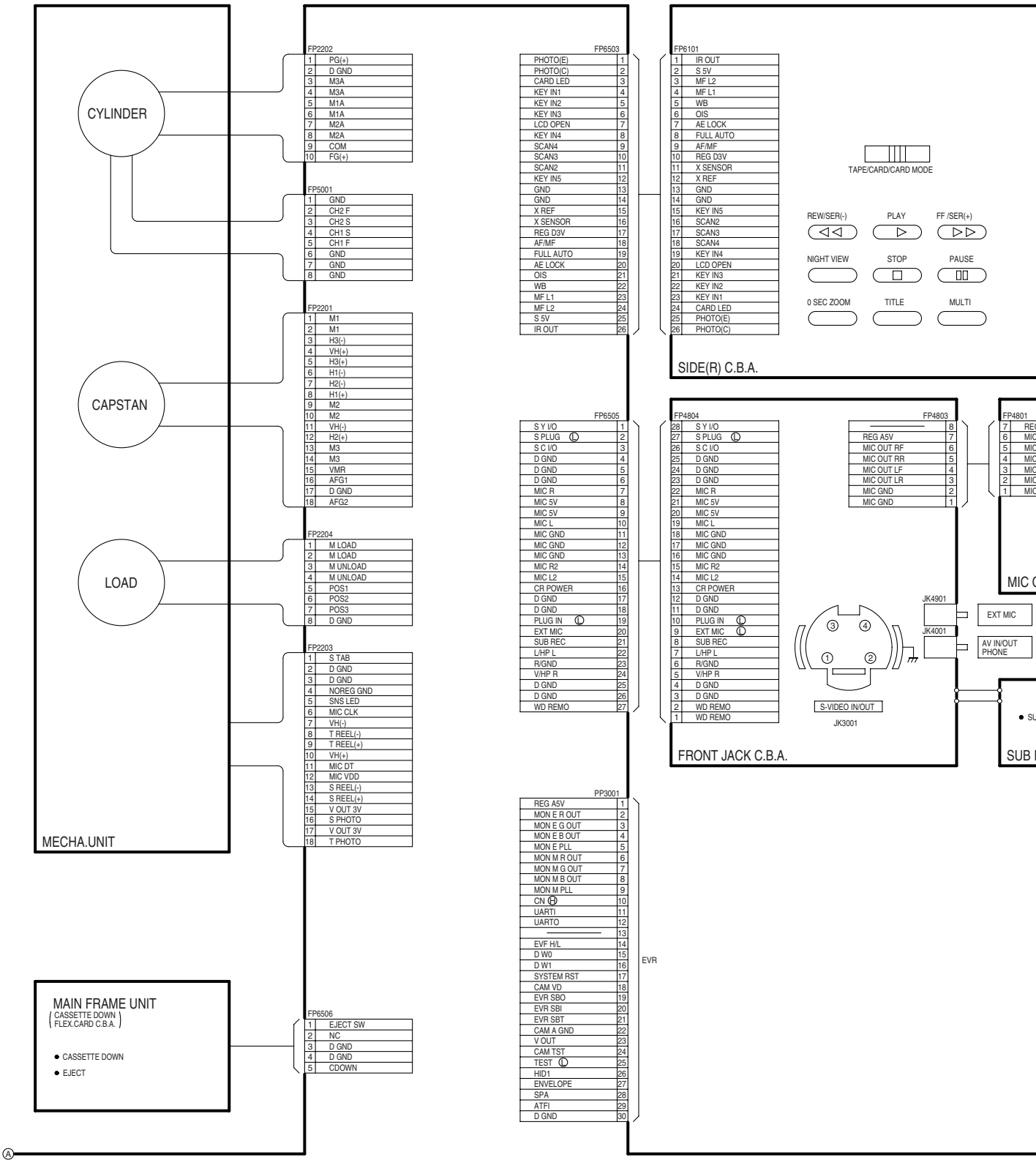
1	———
2	———
3	———
4	D GND
5	POWER SW
6	MODE CVD
7	SCAN1
8	S/S
9	DSC LED
10	D GND
11	CAM LED
12	VTR LED
13	MENU
14	ENC1
15	ENC2
16	MODE SW
17	D GND

PS3001

CAM D3 OFF	150	1	C
CAM SCK	149	2	C
V C DATA	148	3	E
C V DATA	147	4	E
VTR T	146	5	Z
CAM O	145	6	Z
CAM TEST	144	7	
CAM VD	143	8	C
EVR SBO	142	9	C
EVR SBI	141	10	R
EVR SCK	140	11	C
CAM 15V	139	12	E
CAM 15V	138	13	A
CAM -7.5V	137	14	F
MF ENC1	136	15	C
MF ENC2	135	16	A
MODE SW	134	17	C
D GND	133	18	D
D GND	132	19	D
D GND	131	20	Y
D GND	130	21	Y
IR OUT	129	22	Y
FULL AUTO	128	23	Y
AE LOCK	127	24	Y
OIS	126	25	Y
WB	125	26	Y
MF L1	124	27	Y
MF L2	123	28	C
ND FNO	122	29	C
MCLKD	121	30	C
BCLKD	120	31	C
LRCKD	119	32	C
STDID	118	33	C
———	117	34	C
D GND	116	35	C
D GND	115	36	IN
D GND	114	37	IN
D W0	113	38	CL
D W1	112	39	CL
CARD LED	111	40	IN
D UARTI	110	41	IN
UARTO	109	42	C
DSC WAKEUP	108	43	C
DSC XRST	107	44	C
DSC CLK	106	45	C
DSC DTO	105	46	C
DSC BUSY	104	47	C
———	103	48	C
DSC RST	102	49	C
DSC FRP	101	50	Y
DSC DTI	100	51	Y
———	99	52	Y
SHOE P Ⓗ	98	53	Y
TBCLK	97	54	Y
TLRCK	96	55	Y
TSTDO	95	56	Y
SELD Ⓗ	94	57	Y
CAM 1.5V	93	58	
CAM 1.5V	92	59	
CAM 1.5V	91	60	RE
CAM 1.5V	90	61	RE
SUB 1.8V	89	62	RE
SUB 1.8V	88	63	RE
SH 2V	87	64	A3
SH 2V	86	65	A3
REG 3V	85	66	3C
REG 3V	84	67	3C
LENS 3V	83	68	D
SS DET	82	69	D
D GND	81	70	D
D GND	80	71	D
D GND	79	72	D
SHOE DAT	78	73	NO
SHOE CLK	77	74	NO
SHOE DET	76	75	NO

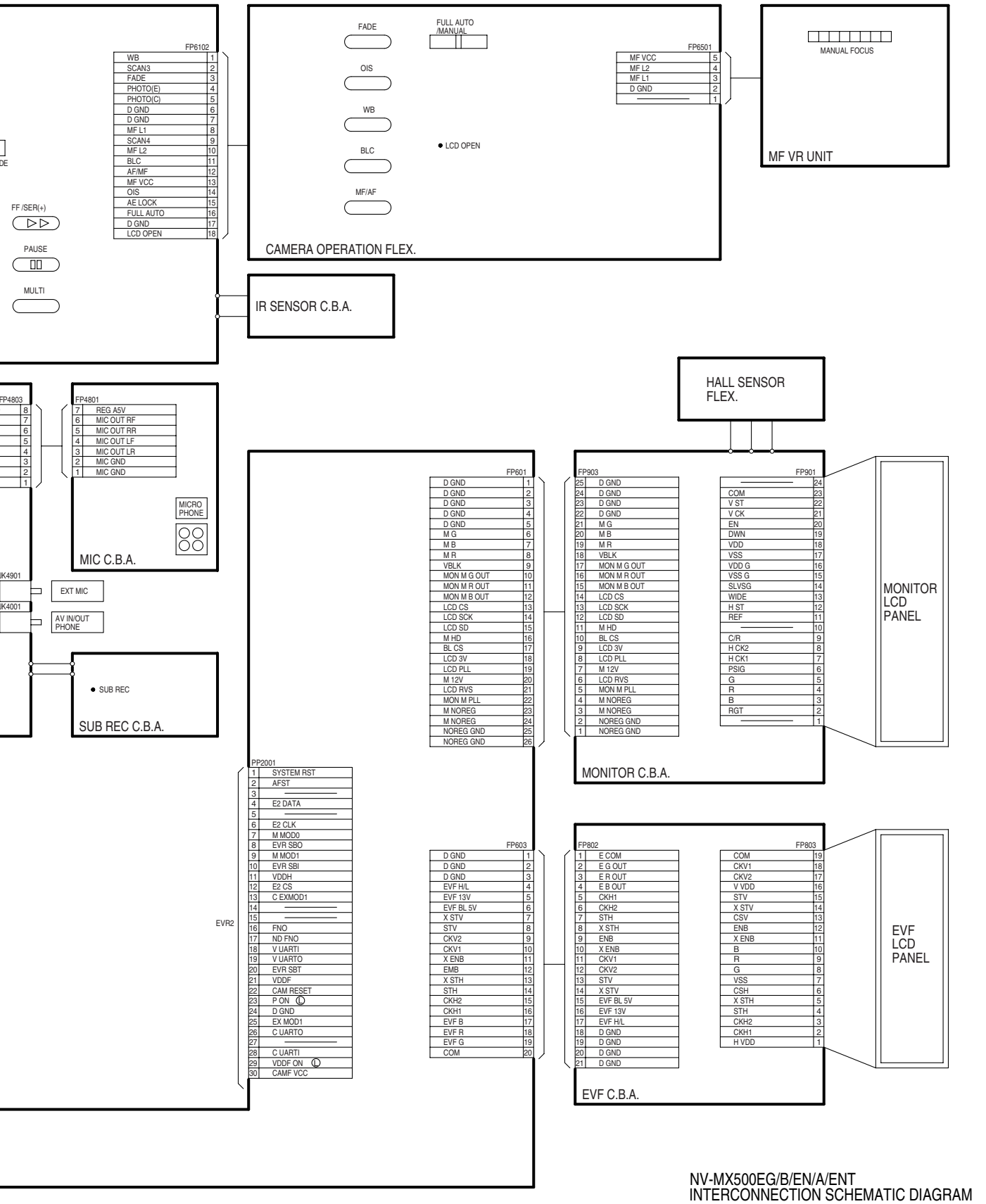


B OFF	150	1	CAM UARTO
CK	149	2	CAM UARTI
TA	148	3	E2 CLK
TA	147	4	E2 DATA
	146	5	Z SW
	145	6	ZOOM AD
EST	144	7	
D	143	8	CAM RTN
BO	142	9	CAM RST
BI	141	10	RTN FLD
CK	140	11	CLK45
5V	139	12	E2 CS
5V	138	13	AFST
1.5V	137	14	FNO
C1	136	15	CAMF VCC
C2	135	16	AF/MF
SW	134	17	C EXMOD1
	133	18	D GND
	132	19	D GND
	131	20	Y DATA17
	130	21	Y DATA16
	129	22	Y DATA15
UTO	128	23	Y DATA14
CK	127	24	Y DATA13
	126	25	Y DATA12
	125	26	Y DATA11
	124	27	Y DATA10
	123	28	C DATA17
D	122	29	C DATA16
D	121	30	C DATA15
	120	31	C DATA14
	119	32	C DATA13
	118	33	C DATA12
	117	34	C DATA11
	116	35	C DATA10
	115	36	INH1
	114	37	INH2
	113	38	CLK135
	112	39	CLKJ27B
LED	111	40	INV1
TI	110	41	INV2
	109	42	C DATA27
AKEUP	108	43	C DATA26
AST	107	44	C DATA25
LK	106	45	C DATA24
TO	105	46	C DATA23
USY	104	47	C DATA22
	103	48	C DATA21
ST	102	49	C DATA20
AP	101	50	Y DATA27
TI	100	51	Y DATA26
	99	52	Y DATA25
P H	98	53	Y DATA24
	97	54	Y DATA23
	96	55	Y DATA22
	95	56	Y DATA21
H	94	57	Y DATA20
5V	93	58	
5V	92	59	
5V	91	60	REG A5V
5V	90	61	REG A5V
3V	89	62	REG D3V
3V	88	63	REG D3V
	87	64	A3V(2)
	86	65	A3V(2)
V	85	66	3CCD 3V
V	84	67	3CCD 3V
V	83	68	D GND
T	82	69	D GND
	81	70	D GND
	80	71	D GND
	79	72	D GND
DAT	78	73	NOREG
CLK	77	74	NOREG
DET	76	75	NOREG



NV-MX500EG/B/EN/A/ENT INTERCONNECTION SCHEMATIC DIAGRAM

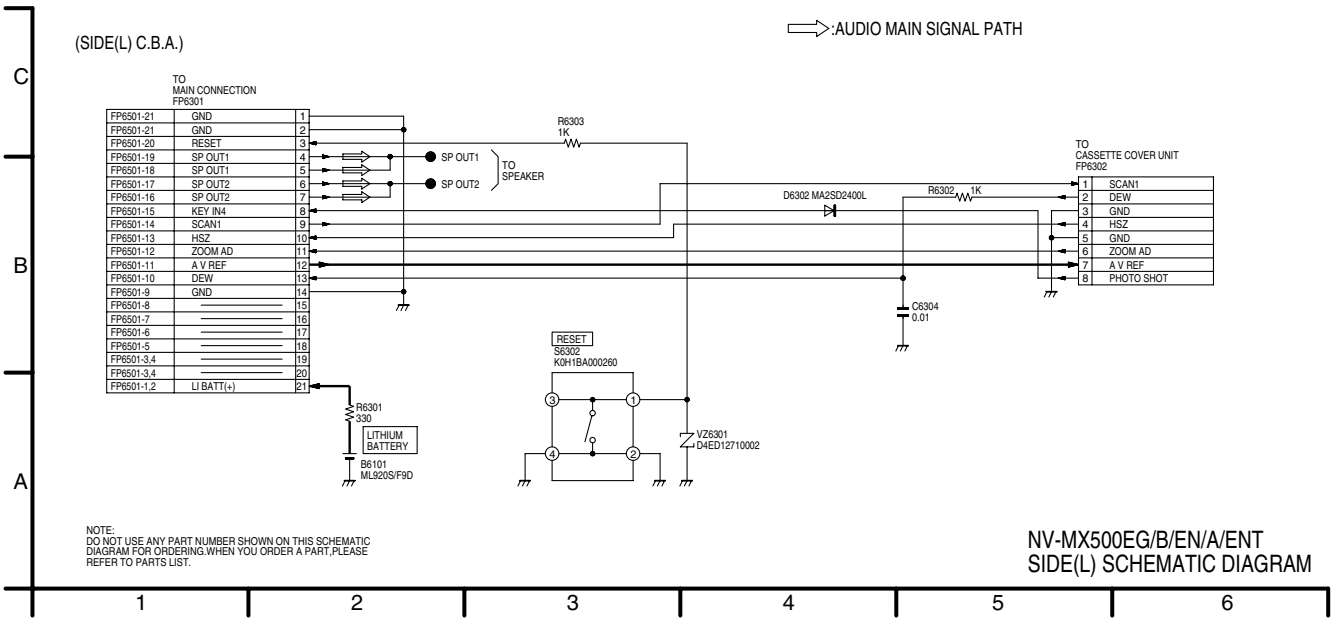
12 13 14 15 16 17



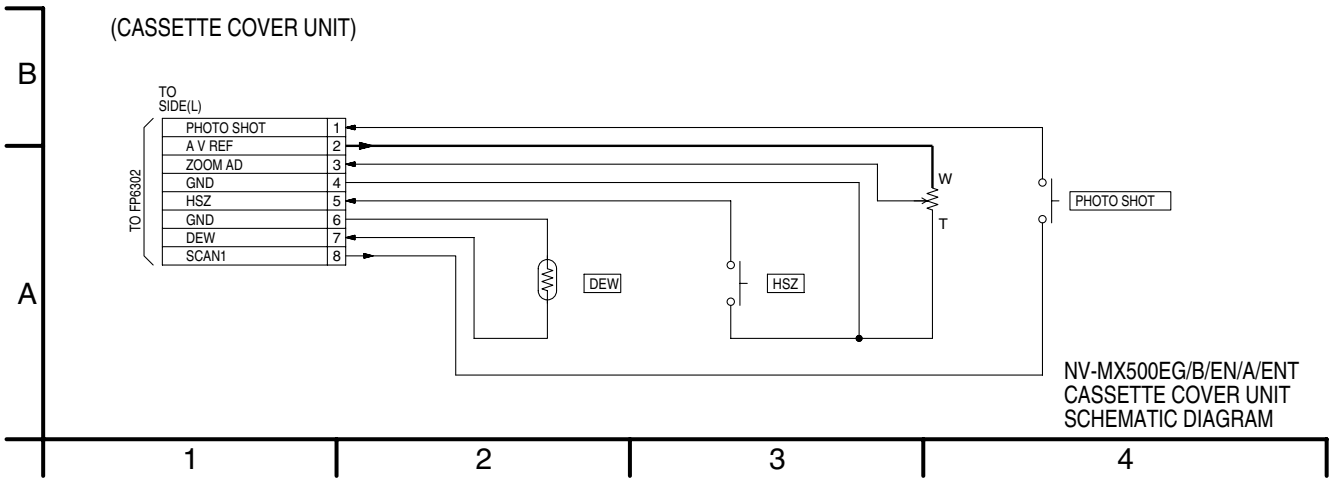
NV-MX500EG/B/EN/A/ENT
INTERCONNECTION SCHEMATIC DIAGRAM

17 | 18 | 19 | 20 | 21 | 22

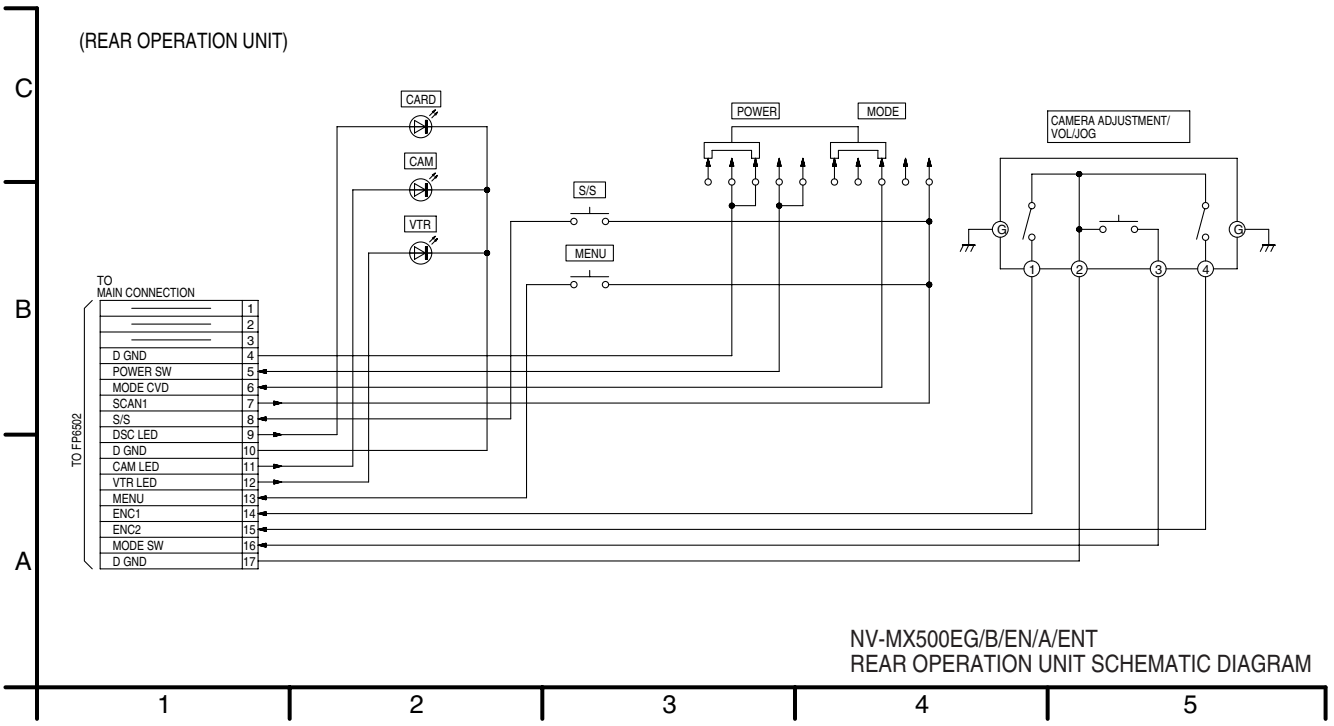
11.3. SIDE (L) SCHEMATIC DIAGRAM



11.4. CASSETTE COVER UNIT SCHEMATIC DIAGRAM

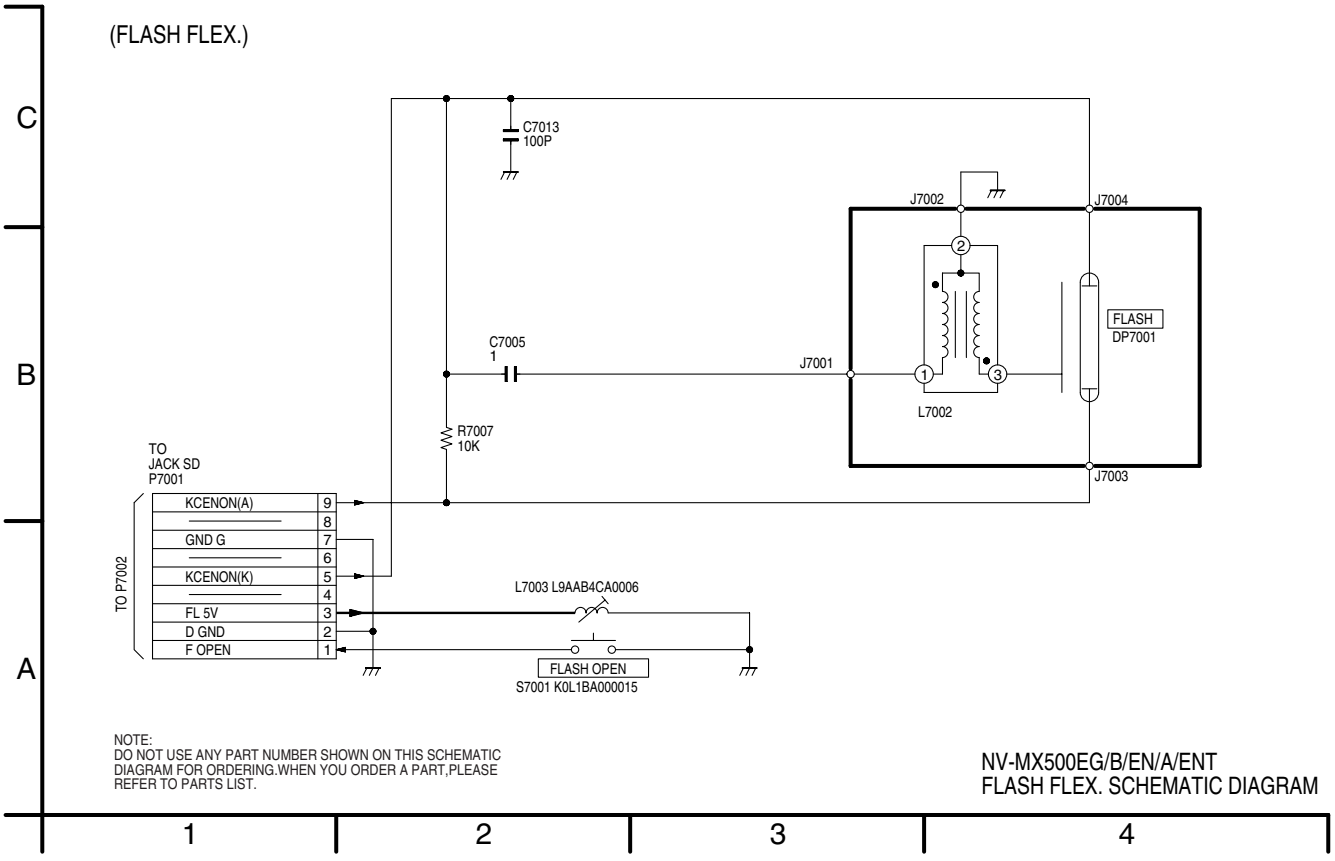


11.5. REAR OPERATION UNIT SCHEMATIC DIAGRAM

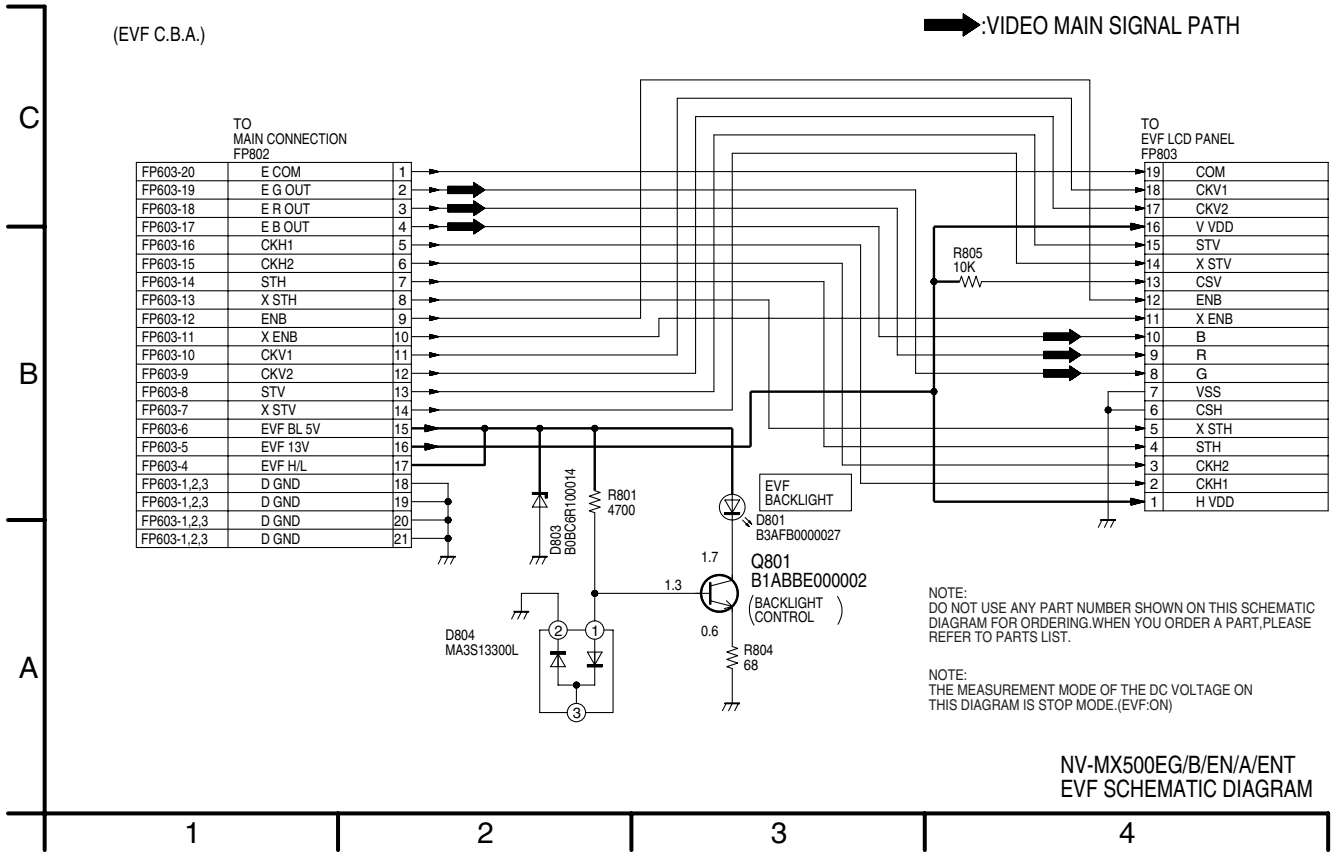


11.6. MAIN FRAME UNIT (CASSETTE DOWN FLEX. CARD) SCHEMATIC DIAGRAM

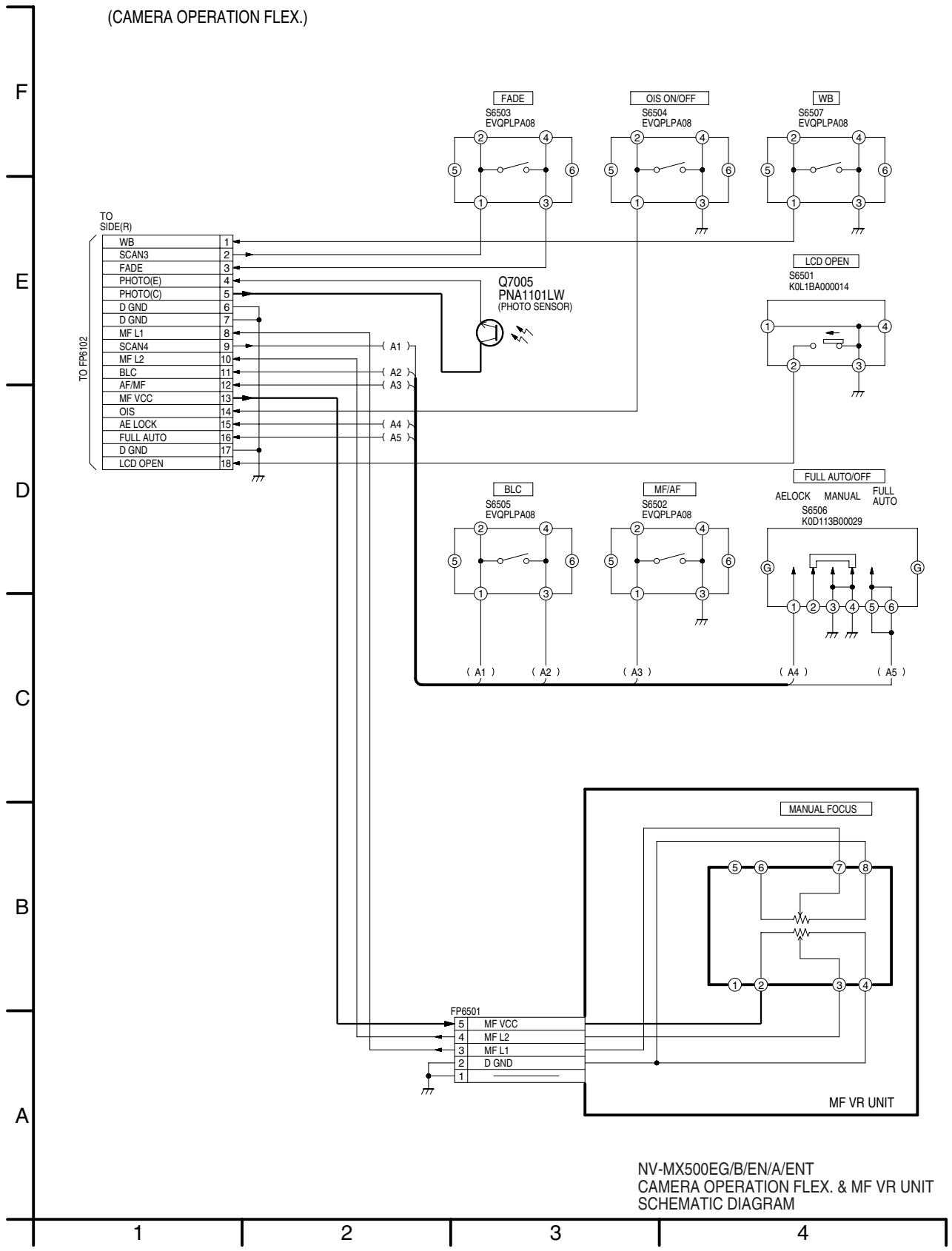
11.7. FLASH FLEX. UNIT SCHEMATIC DIAGRAM



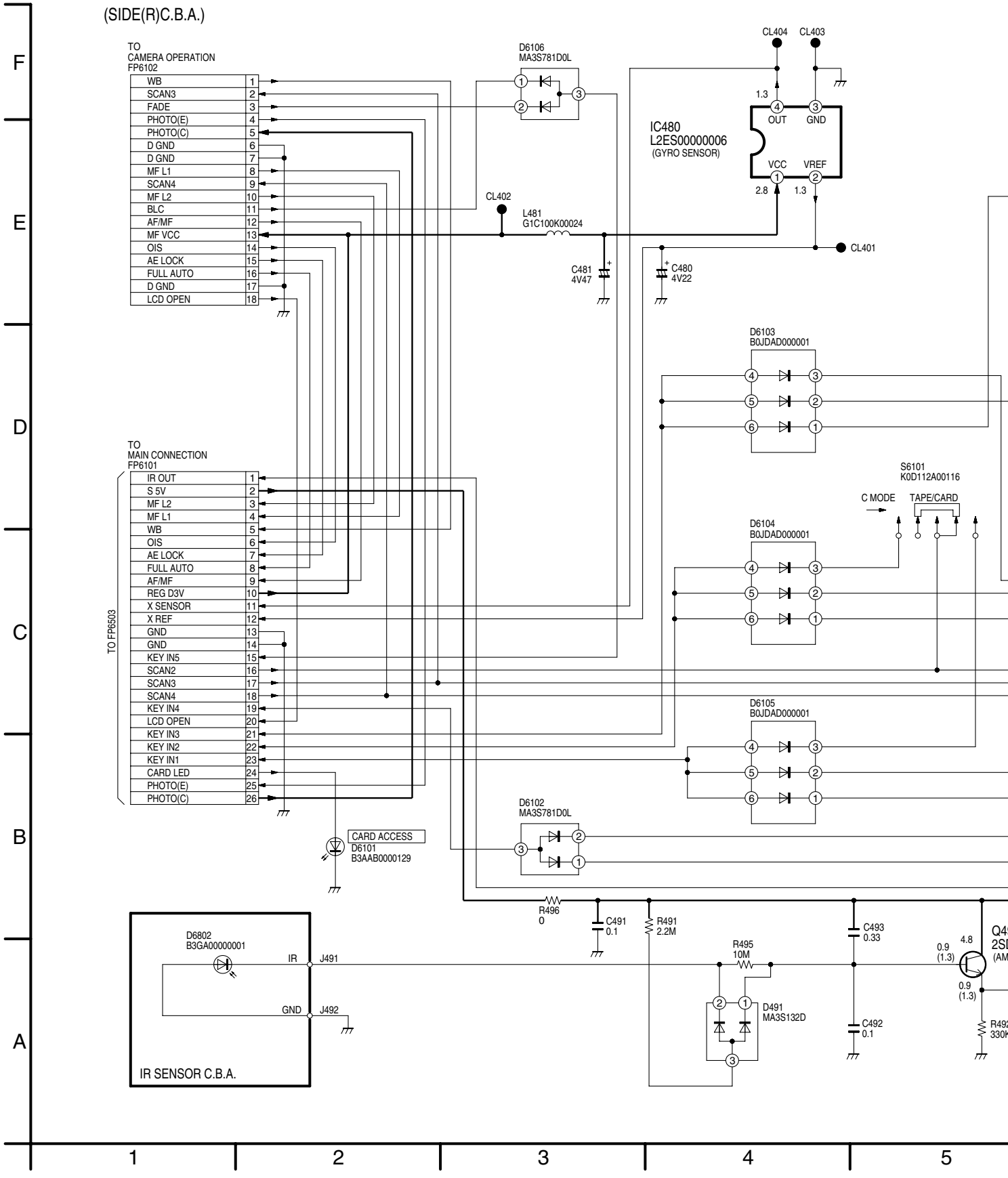
11.8. EVF SCHEAMTIC DIAGRAM

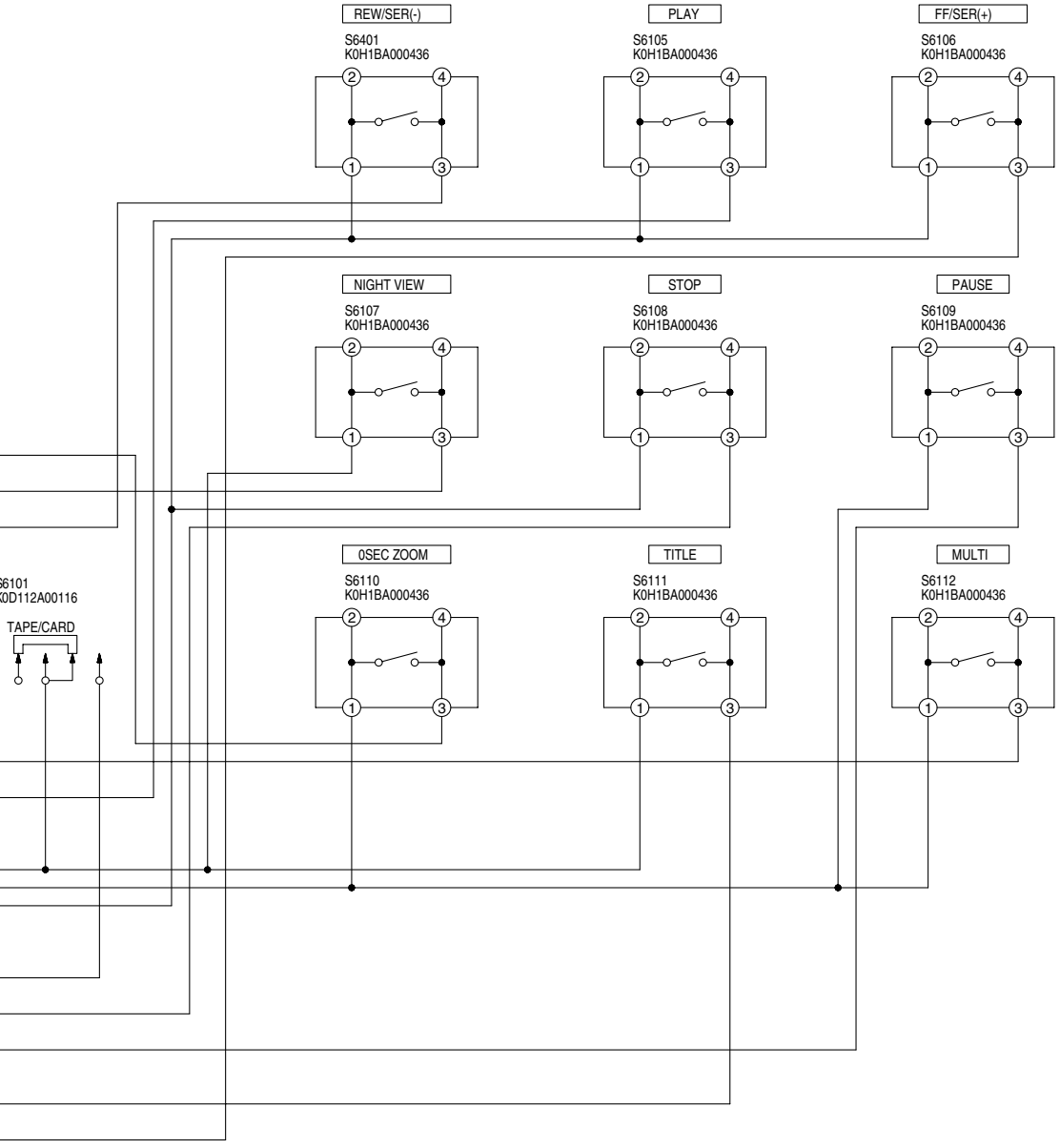


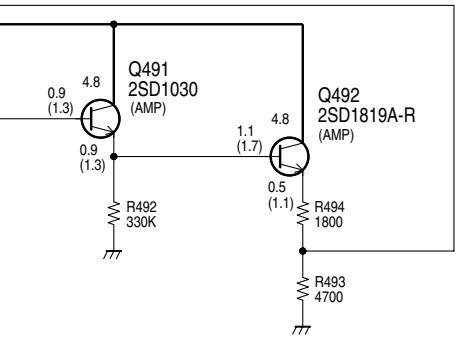
11.9. CAMERA OPERATION FLEX. & MF VR UNIT CHEMATIC DIAGRAM



11.10. SIDE (R) & IR SENSOR SCHEMATIC DIAGRAM







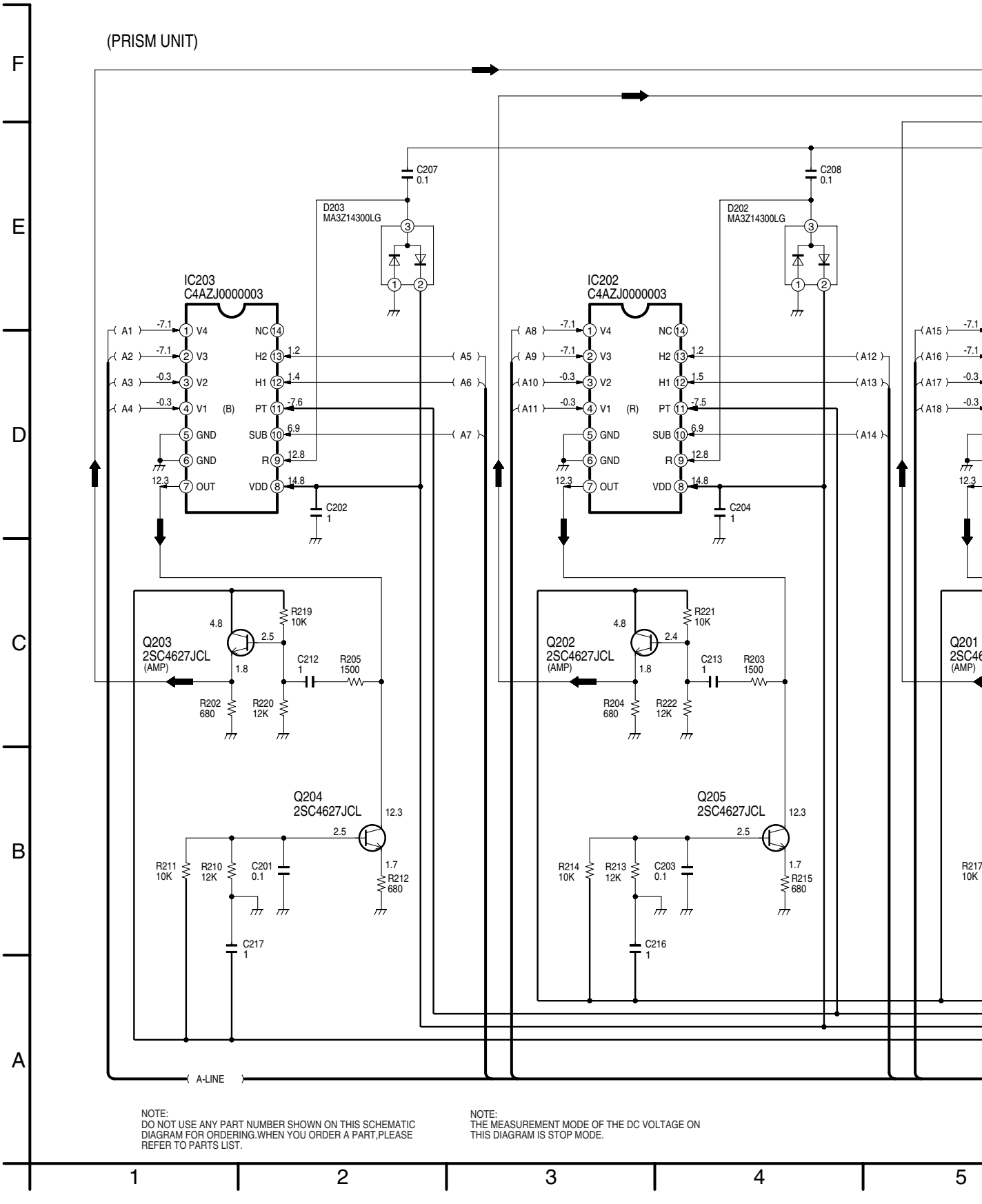
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NV-MX500EG/B/EN/A/ENT
SIDE(R) & IR SENSOR SCHEMATIC DIAGRAM

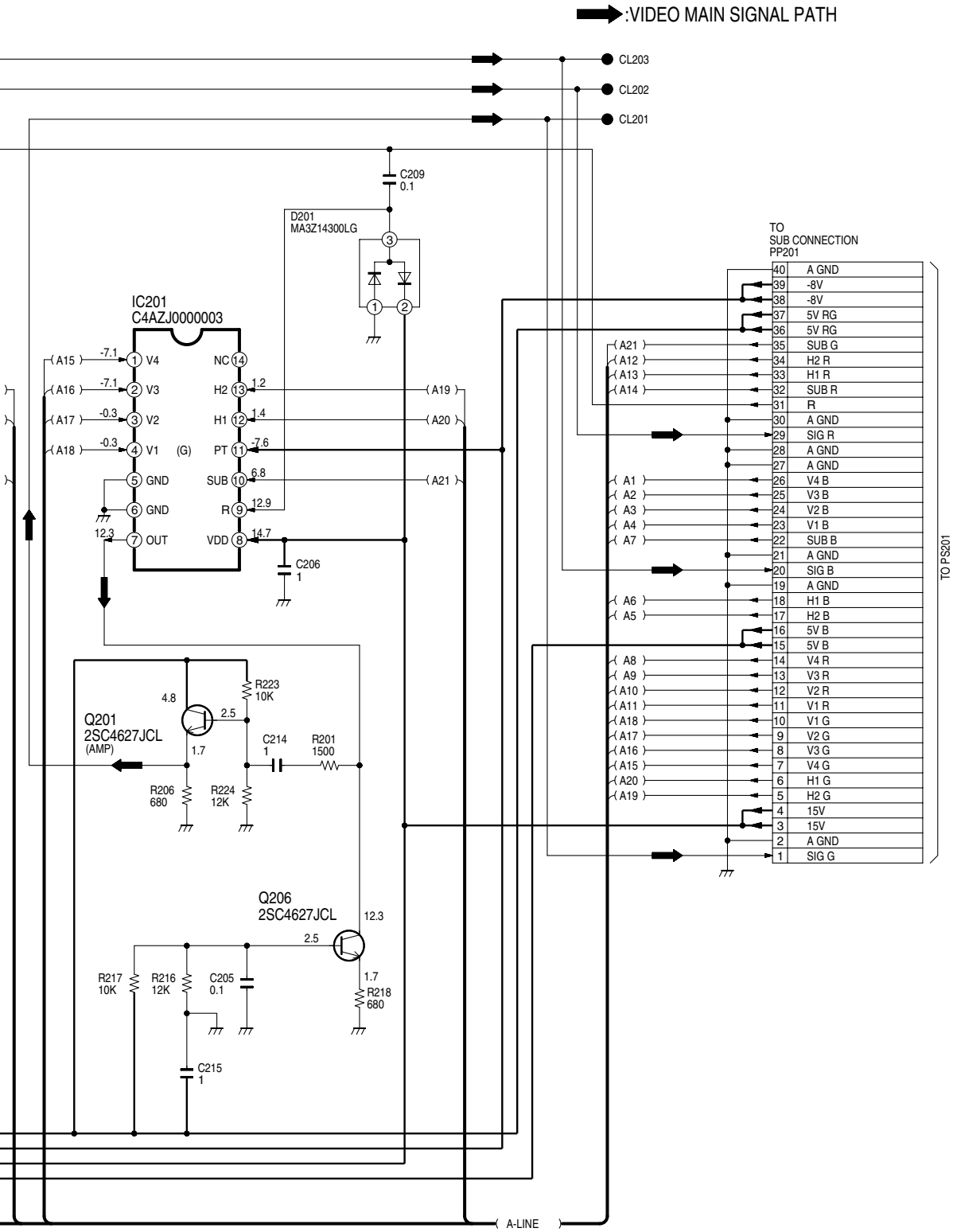
5 | 6 | 7 | 8

11.11. PRISM UNIT SCHEMATIC DIAGRAM



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

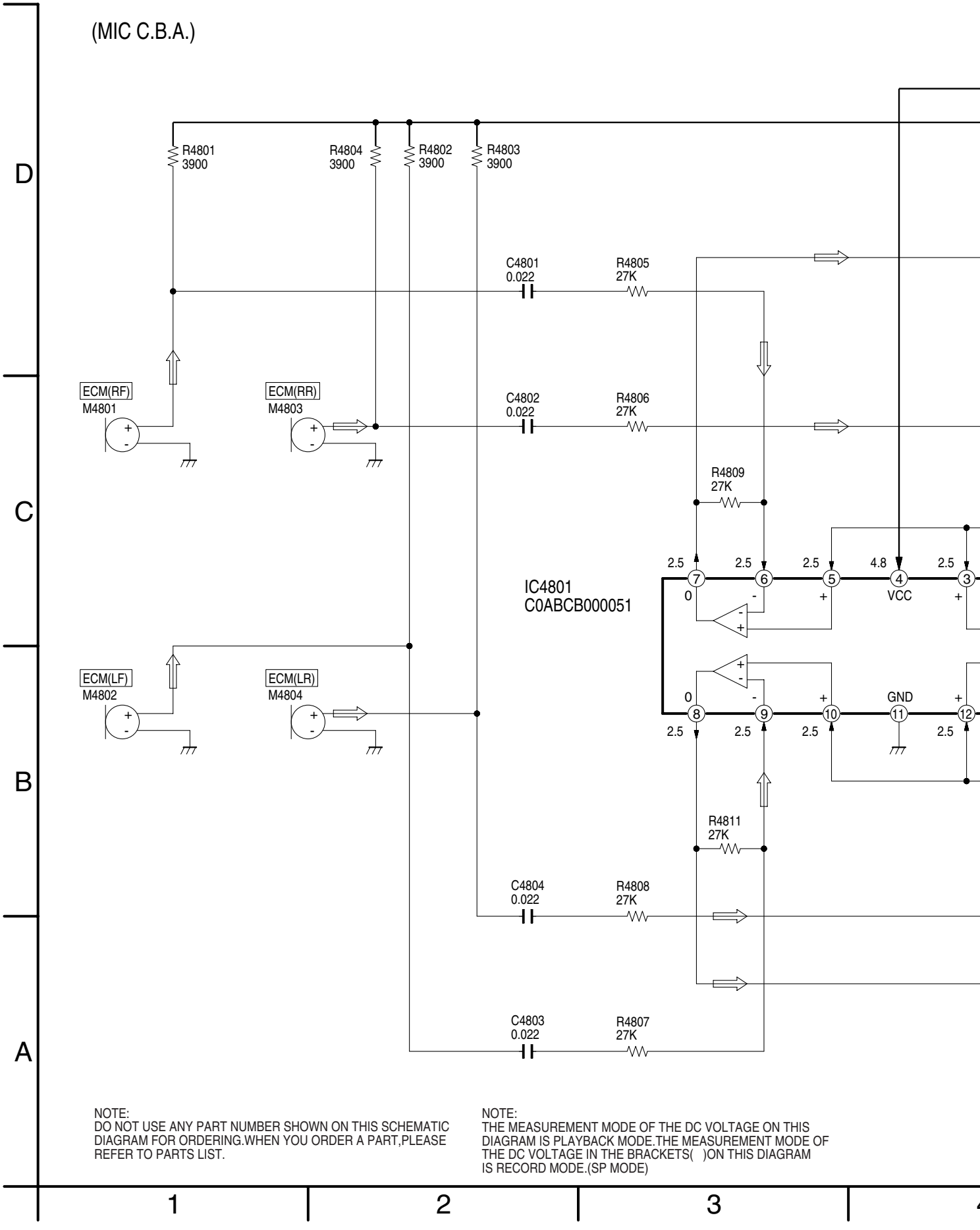
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.



NV-MX500EG/B/EN/A/ENT
PRISM UNIT SCHEMATIC DIAGRAM

5 | 6 | 7 | 8

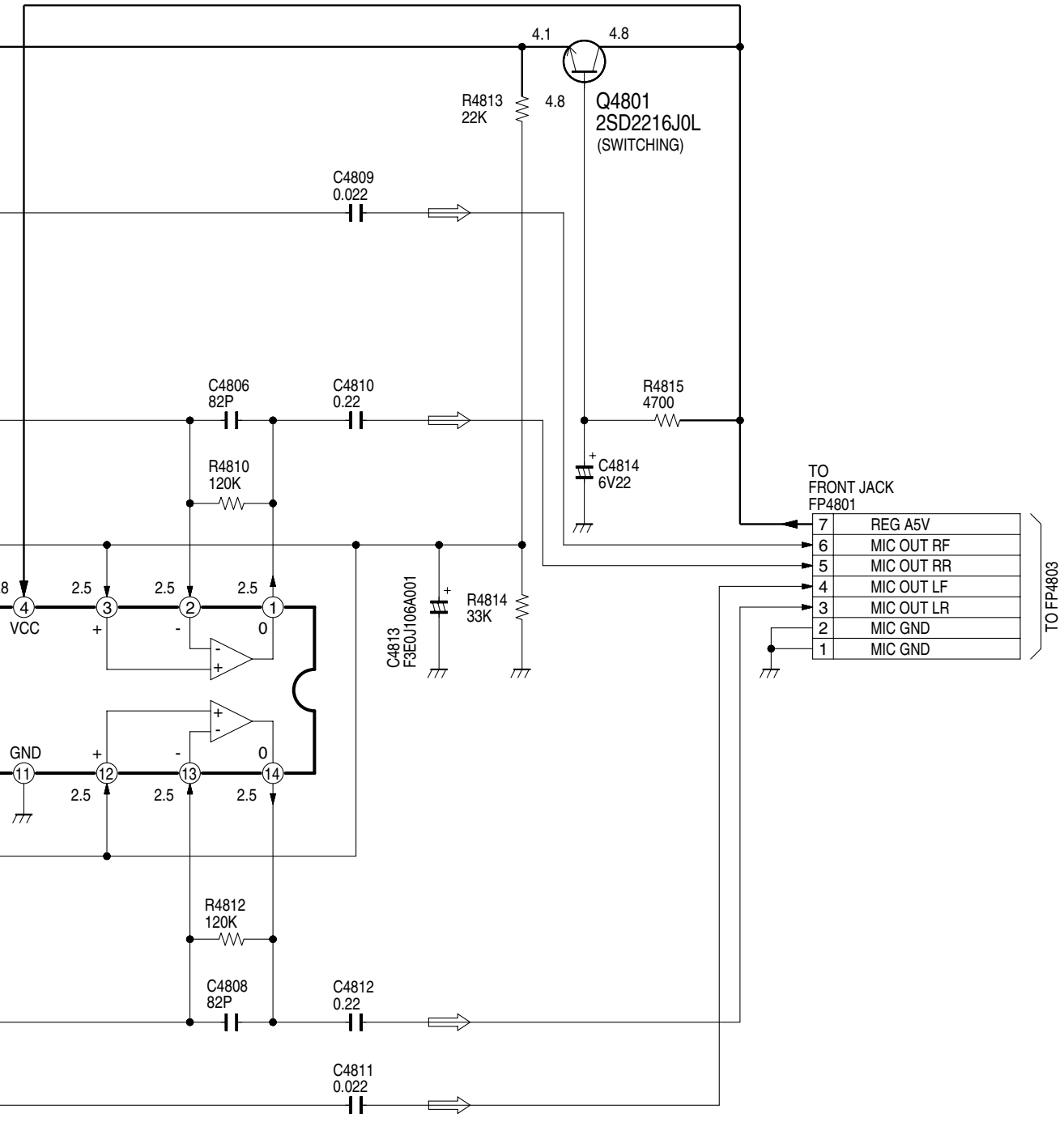
11.12. MIC SCHEMATIC DIAGRAM



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

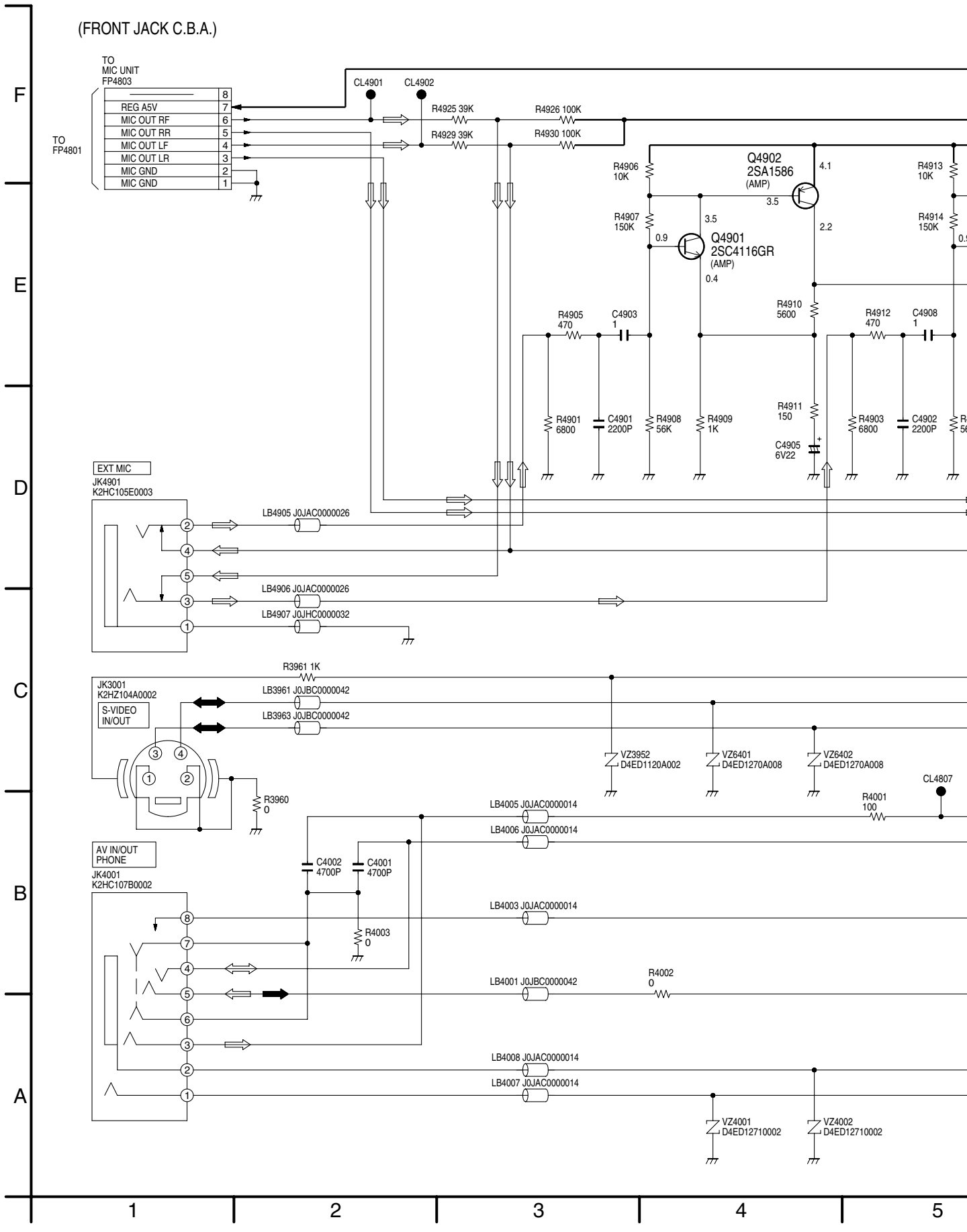
:AUDIO MAIN SIGNAL PATH

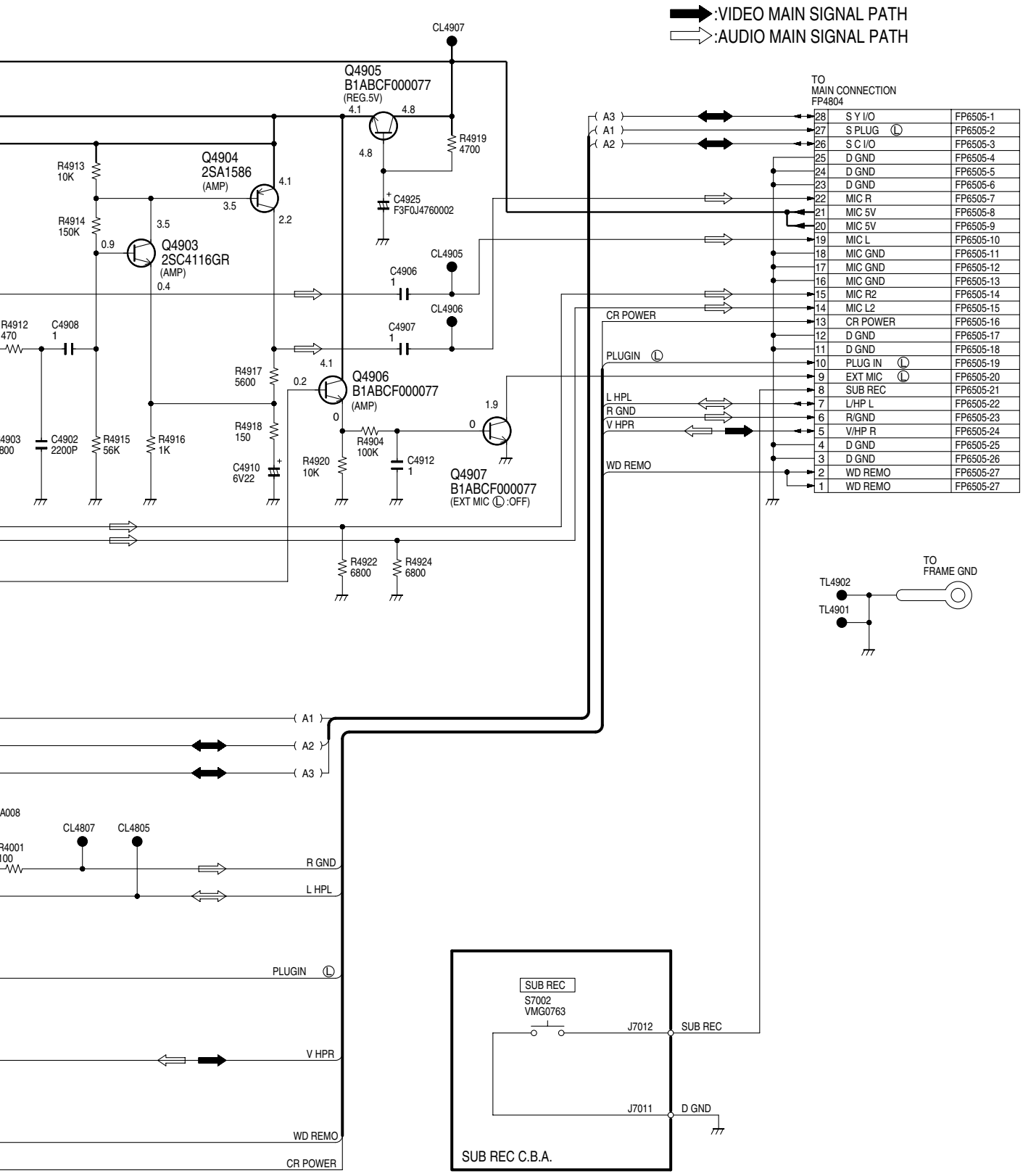


NV-MX500EG/B/EN/A/ENT
MIC SCHEMATIC DIAGRAM

4 | 5 | 6

11.13. FRONT JACK & SUB REC SCHEMATIC DIAGRAM





0002

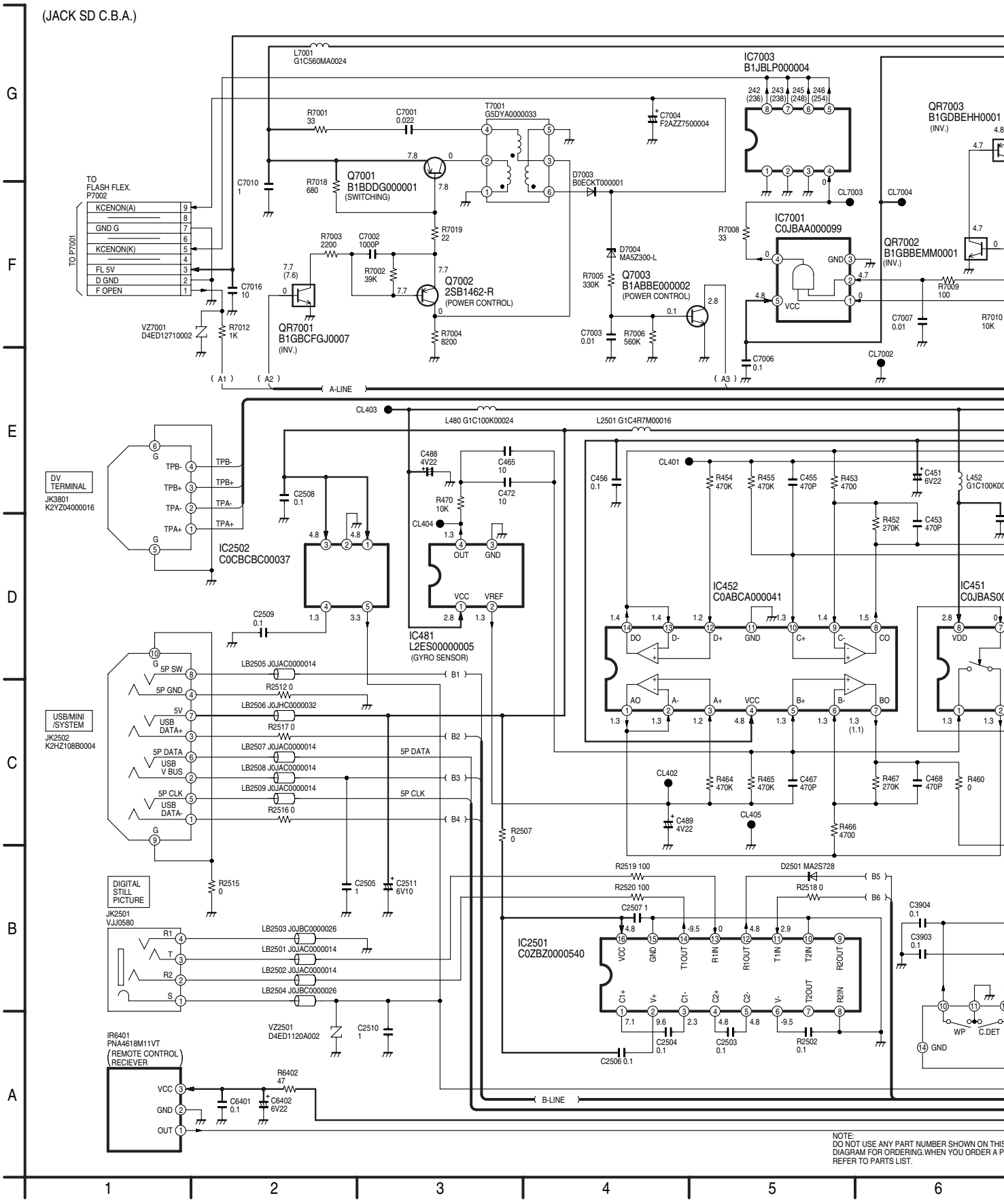
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

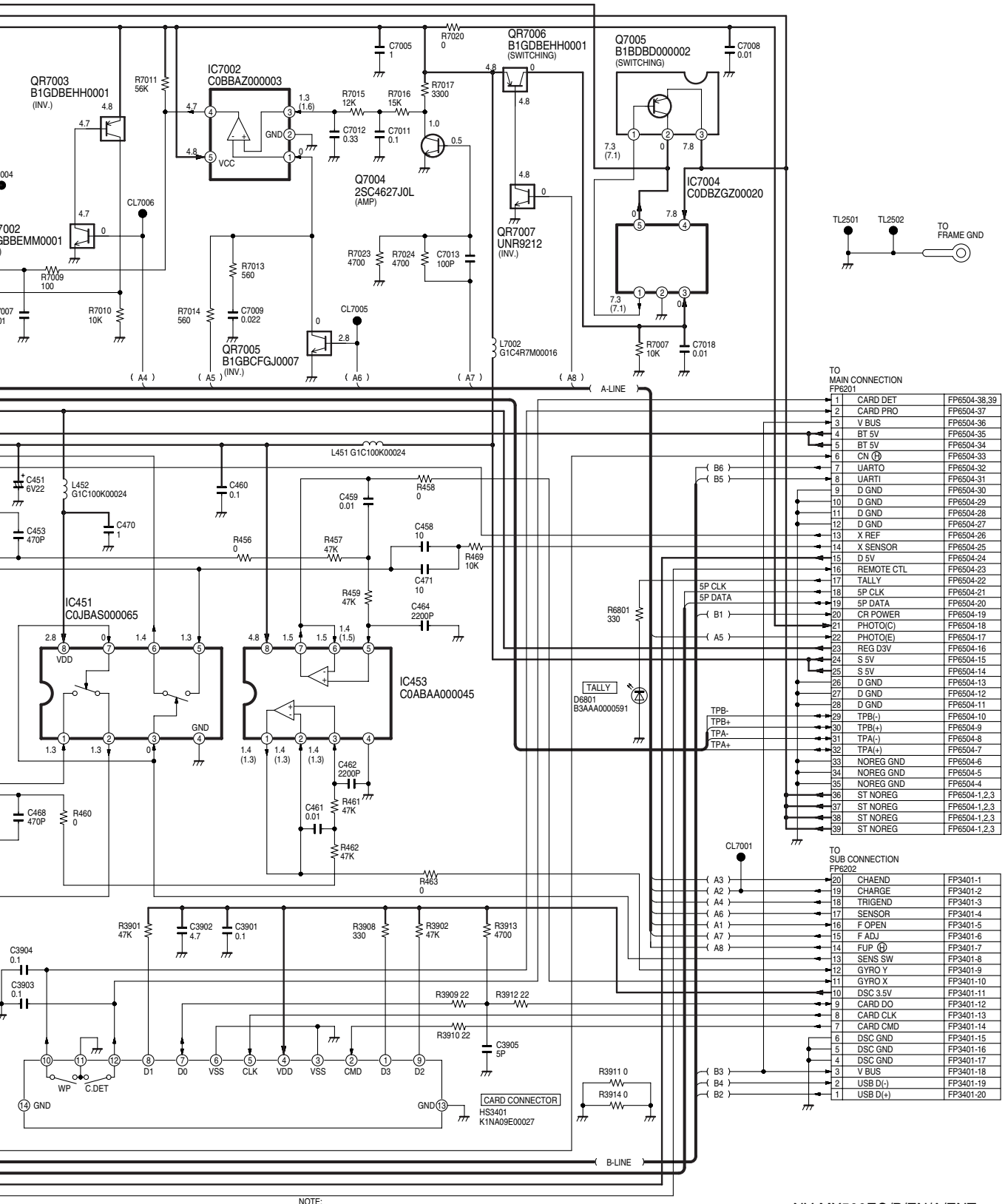
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NV-MX500EG/B/EN/A/ENT
FRONT JACK & SUB REC
SCHEMATIC DIAGRAM

5 | 6 | 7 | 8 | 9

11.14. JACK SD SCHEMATIC DIAGRAM





1	CARD DET	FP6504-38,39
2	CARD PRO	FP6504-37
3	V BUS	FP6504-36
4	BT 5V	FP6504-35
5	BT 5V	FP6504-34
6	CN Ⓗ	FP6504-33
7	UARTO	FP6504-32
8	UARTI	FP6504-31
9	D GND	FP6504-30
10	D GND	FP6504-29
11	D GND	FP6504-28
12	D GND	FP6504-27
13	X REF	FP6504-26
14	X SENSOR	FP6504-25
15	D 5V	FP6504-24
16	REMOTE CTL	FP6504-23
17	TALLY	FP6504-22
18	5P CLK	FP6504-21
19	5P DATA	FP6504-20
20	CR POWER	FP6504-19
21	PHOTO(C)	FP6504-18
22	PHOTO(E)	FP6504-17
23	REG D3V	FP6504-16
24	S 5V	FP6504-15
25	S 5V	FP6504-14
26	D GND	FP6504-13
27	D GND	FP6504-12
28	D GND	FP6504-11
29	TPB(-)	FP6504-10
30	TPB(+)	FP6504-9
31	TPA(-)	FP6504-8
32	TPA(+)	FP6504-7
33	NOREG GND	FP6504-6
34	NOREG GND	FP6504-5
35	NOREG GND	FP6504-4
36	ST NOREG	FP6504-1,2,3
37	ST NOREG	FP6504-1,2,3
38	ST NOREG	FP6504-1,2,3
39	ST NOREG	FP6504-1,2,3

20	CHAEND	FP3401-1
19	CHARGE	FP3401-2
18	TRIGEND	FP3401-3
17	SENSOR	FP3401-4
16	F OPEN	FP3401-5
15	F ADJ	FP3401-6
14	FUP Ⓗ	FP3401-7
13	SENS SW	FP3401-8
12	GYRO Y	FP3401-9
11	GYRO X	FP3401-10
10	DSC 3.5V	FP3401-11
9	CARD DO	FP3401-12
8	CARD CLK	FP3401-13
7	CARD CMD	FP3401-14
6	DSC GND	FP3401-15
5	DSC GND	FP3401-16
4	DSC GND	FP3401-17
3	V BUS	FP3401-18
2	USB D(-)	FP3401-19
1	USB D(+)	FP3401-20

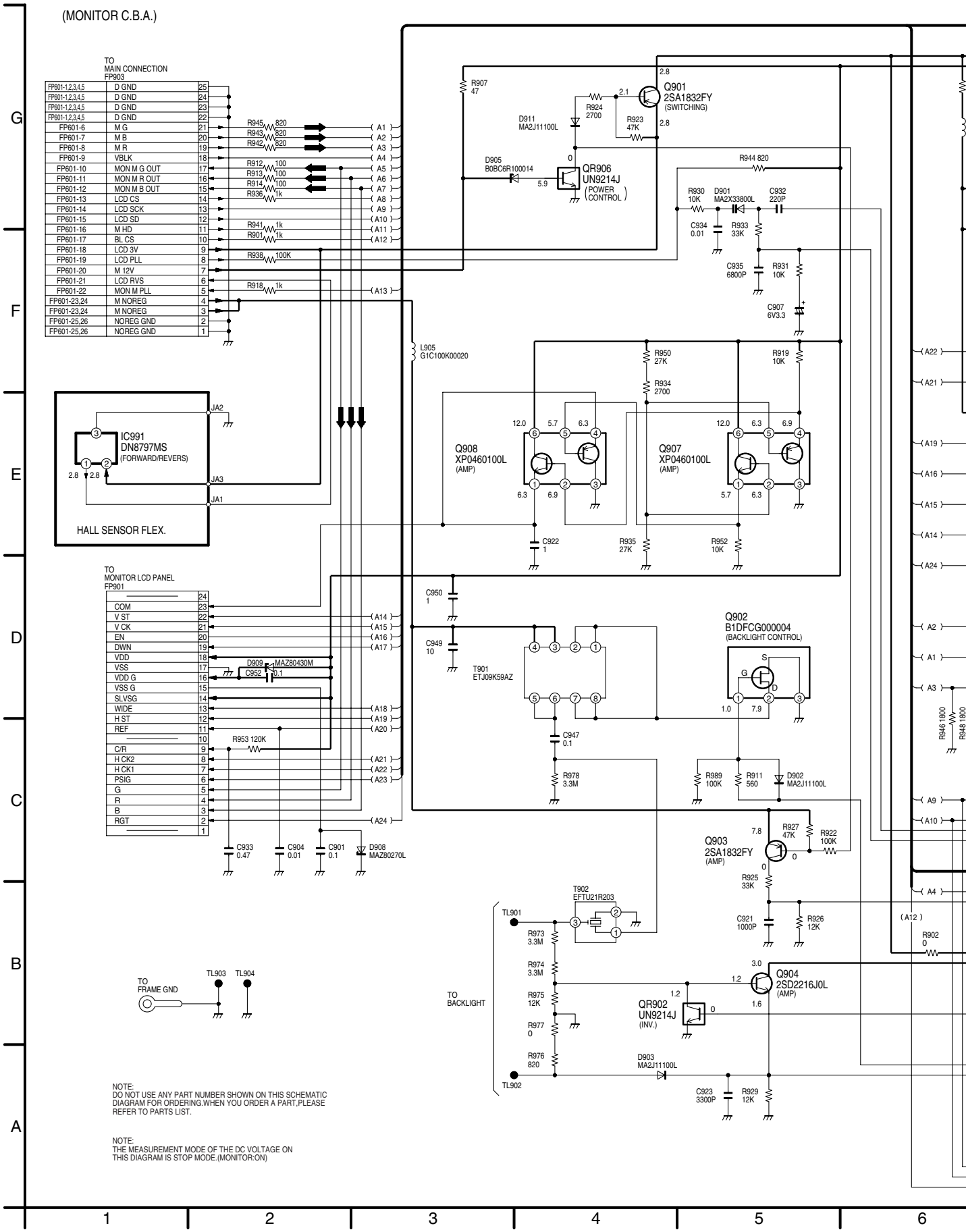
ART NUMBER SHOWN ON THIS SCHEMATIC
ERING.WHEN YOU ORDER A PART,PLEASE
IST.

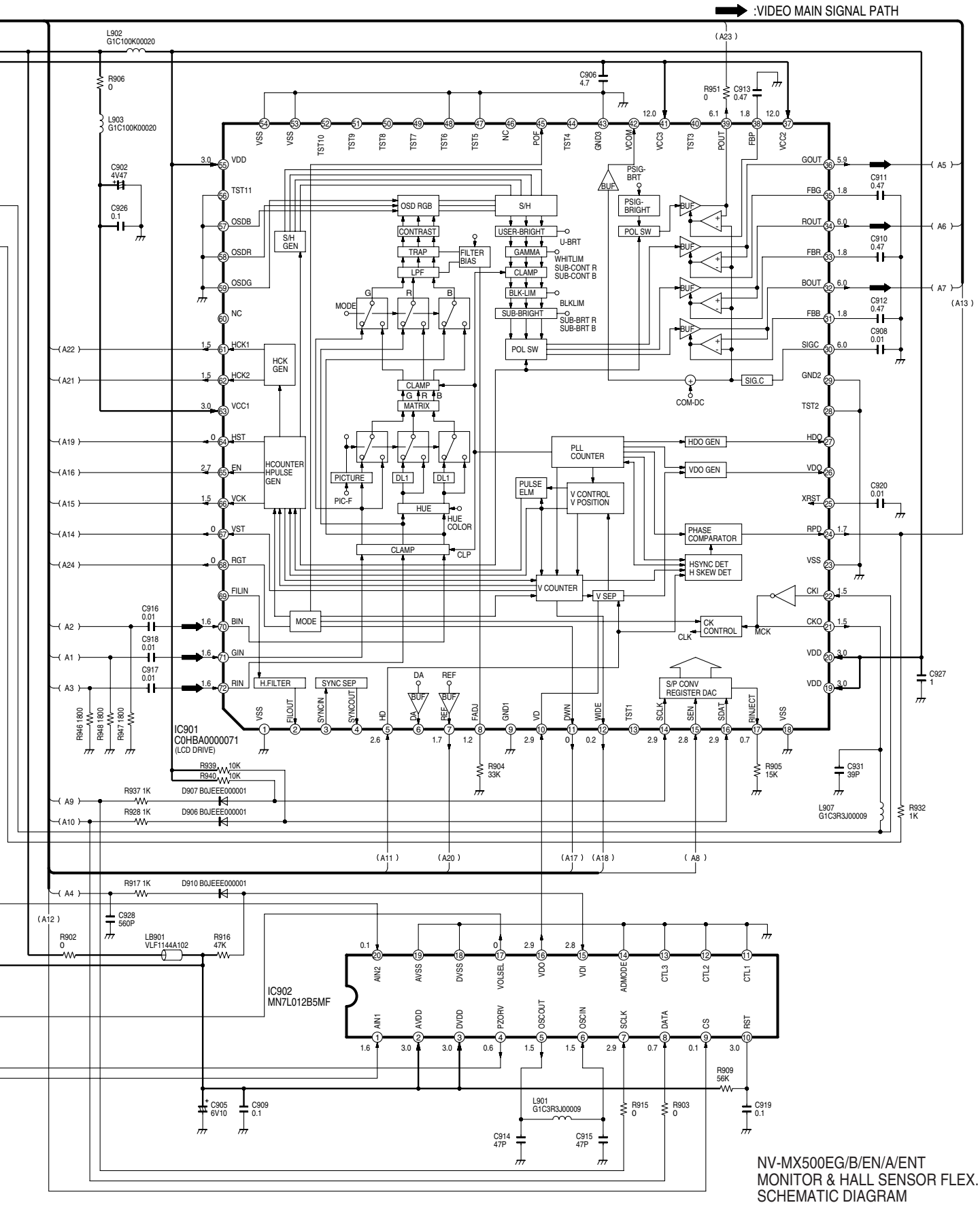
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

NV-MX500EG/B/EN/A/ENT
JACK SD SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

11.15. MONITOR & HALL SENSOR FLEX. SCHEMATIC DIAGRAM

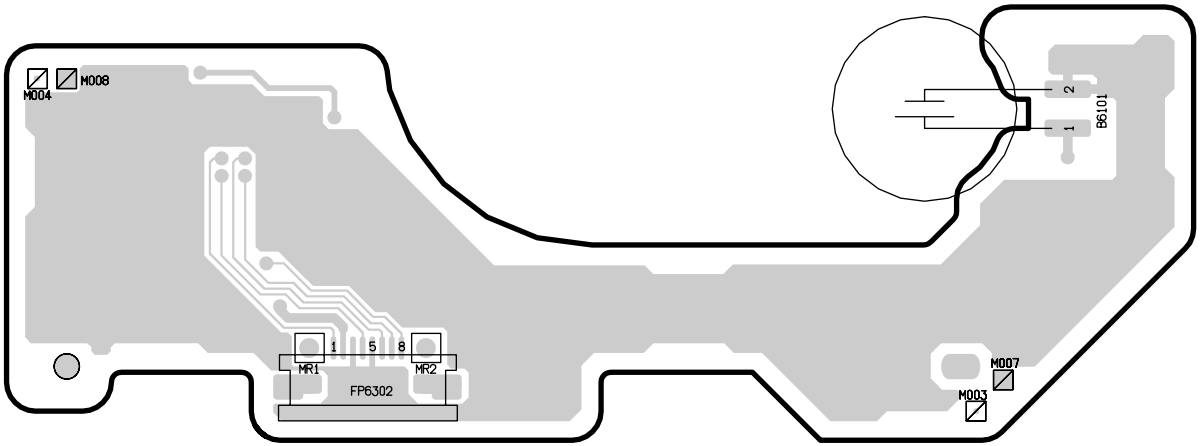




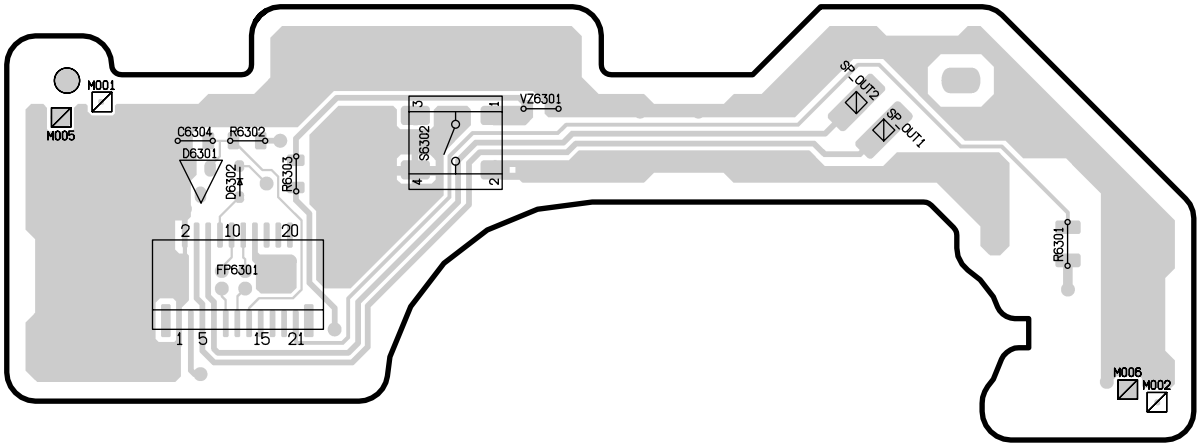
NV-MX500EG/B/EN/A/ENT
MONITOR & HALL SENSOR FLEX.
SCHEMATIC DIAGRAM

6 | 7 | 8 | 9 | 10 | 11

(VEP06F01A)



(COMPONENT SIDE)



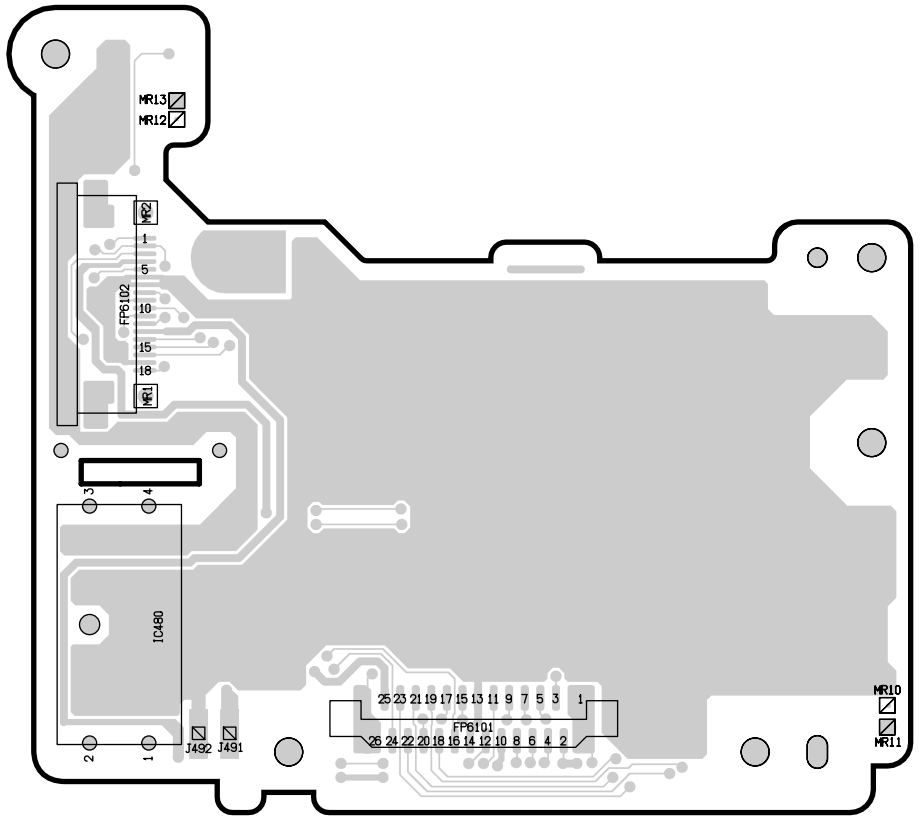
(FOIL SIDE)

NV-MX500EG/B/EN/A/ENT
SIDE (L) C.B.A.

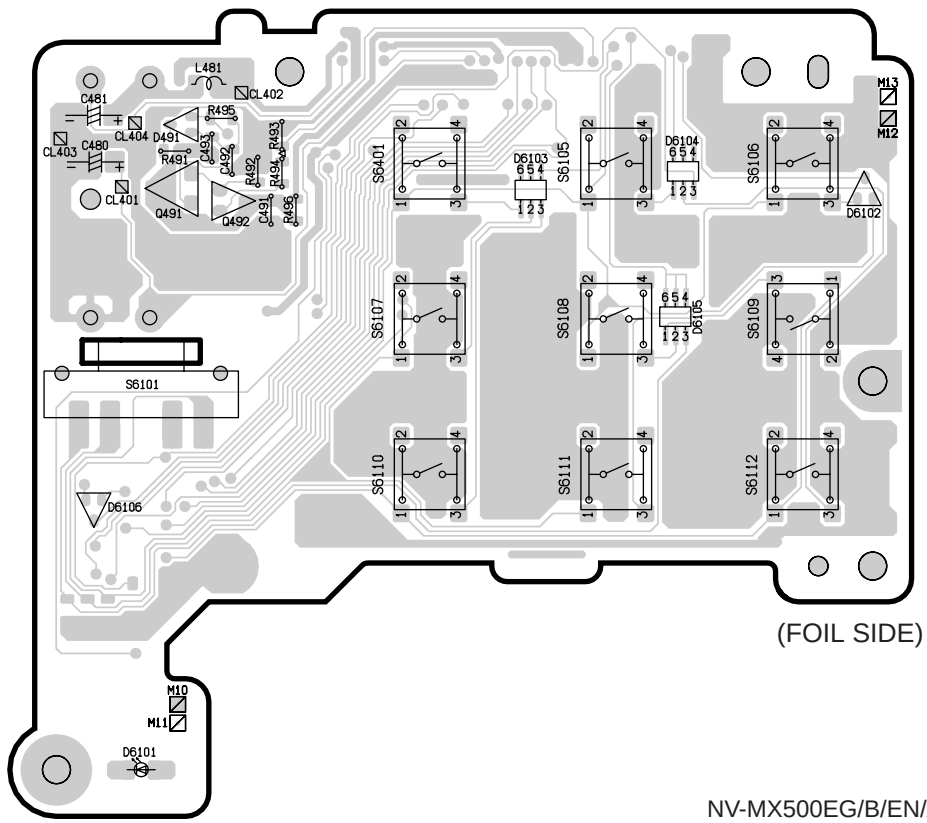
D C B A

1 2 3 4 5

(VEP06E88A)



(COMPONENT SIDE)

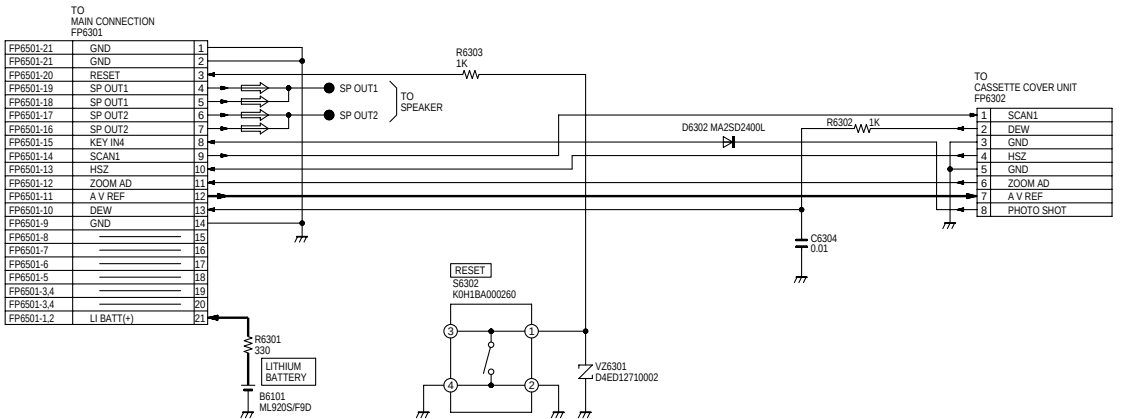


(FOIL SIDE)

NV-MX500EG/B/EN/A/ENT
SIDE (R) C.B.A.

(SIDE(L) C.B.A.)

:AUDIO MAIN SIGNAL PATH



NOTE:
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NV-MX500EG/B/EN/A/ENT
SIDE(L) SCHEMATIC DIAGRAM

C B A

1 2 3 4 5 6

(SIDE(R)C.B.A.)

TO
CAMERA OPERATION
FP6102

WB	1
SCAN3	2
FADE	3
PHOTO(E)	4
PHOTO(C)	5
D GND	6
D GND	7
MF L1	8
SCAN4	9
MF L2	10
BLC	11
AF/MF	12
MF VCC	13
OIS	14
AE LOCK	15
FULL AUTO	16
D GND	17
LCD OPEN	18

D6106
MA3S781D0L

CL404 CL403

IC480
L2ES00000006
(GYRO SENSOR)
1.3
OUT
GND
VCC
VREF
2.8
1.3

CL402
L481
G1C100K00024
C481
4V47
C480
4V22
CL401

D6103
B0JDAD000001

S6101
K0D112A00116
C MODE
TAPE/CARD

D6104
B0JDAD000001

D6105
B0JDAD000001

D6102
MA3S781D0L

TO
MAIN CONNECTION
FP6101

IR OUT	1
S 5V	2
MF L2	3
MF L1	4
WB	5
OIS	6
AE LOCK	7
FULL AUTO	8
AF/MF	9
REG D3V	10
X SENSOR	11
X REF	12
GND	13
GND	14
KEY IN5	15
SCAN2	16
SCAN3	17
SCAN4	18
KEY IN4	19
LCD OPEN	20
KEY IN3	21
KEY IN2	22
KEY IN1	23
CARD LED	24
PHOTO(E)	25
PHOTO(C)	26

TO FP6503

CARD ACCESS
D6101
B3AAB0000129

REW/SER(-)
S6401
K0H1BA000436

PLAY
S6105
K0H1BA000436

FF/SER(+)
S6106
K0H1BA000436

NIGHT VIEW
S6107
K0H1BA000436

STOP
S6108
K0H1BA000436

PAUSE
S6109
K0H1BA000436

0SEC ZOOM
S6110
K0H1BA000436

TITLE
S6111
K0H1BA000436

MULTI
S6112
K0H1BA000436

D6802
B3GA00000001
IR
J491
GND
J492
IR SENSOR C.B.A.

R496
0
C491
0.1
R491
2.2M
R495
10M
D491
MA3S132D
C493
0.33
C492
0.1
Q491
2SD1030
(AMP)
0.9
(1.3)
4.8
0.9
(1.3)
R492
330K
Q492
2SD1819A-R
(AMP)
1.1
(1.7)
4.8
0.5
(1.1)
R494
1800
R493
4700

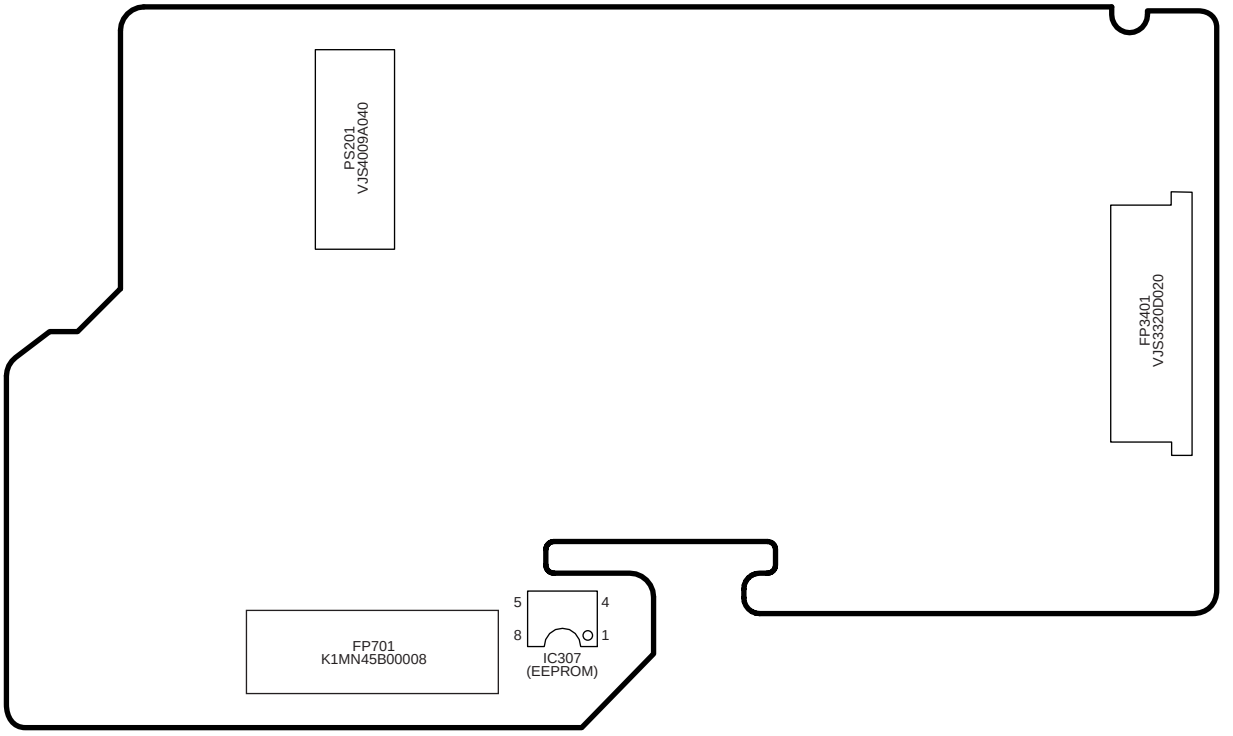
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS PLAYBACK MODE.THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

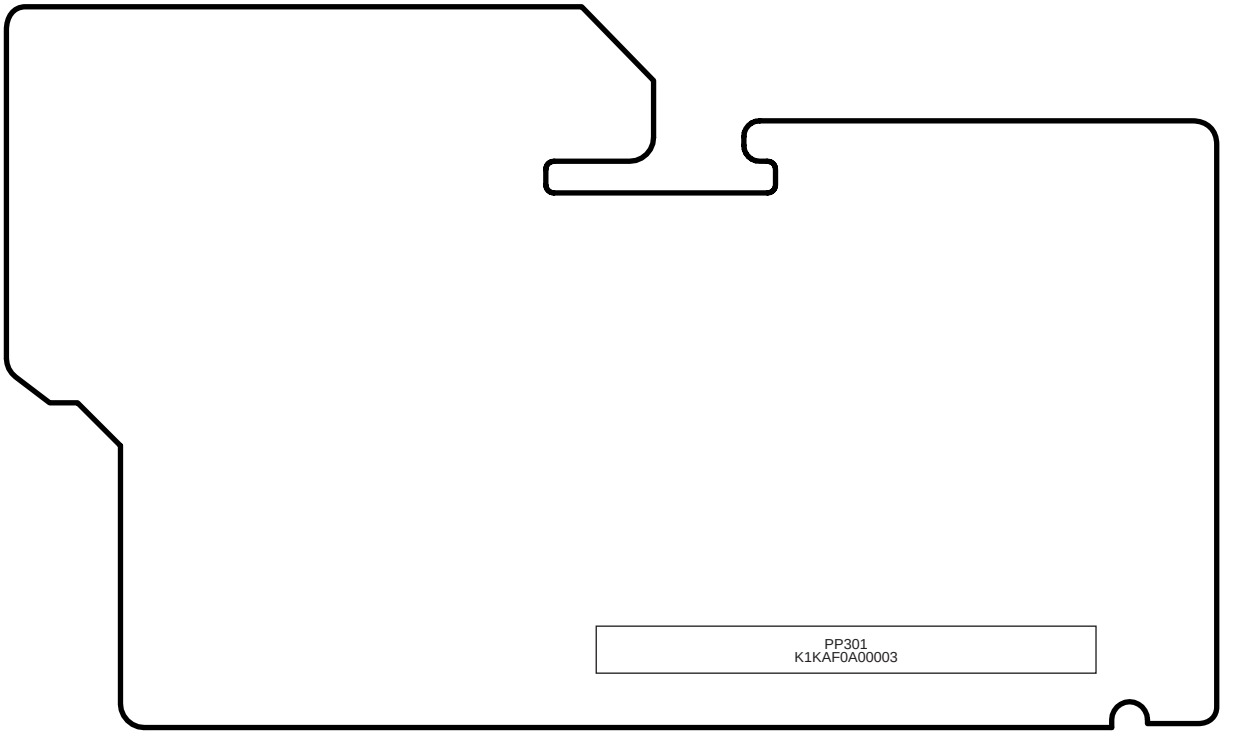
NV-MX500EG/B/EN/A/ENT
SIDE(R) & IR SENSOR SCHEMATIC DIAGRAM

F E D C B A

1 2 3 4 5 6 7 8

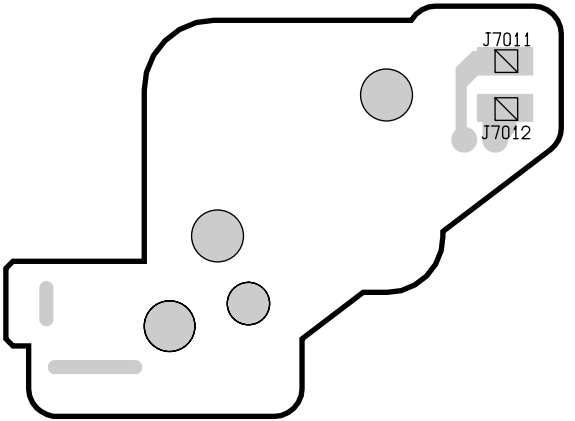


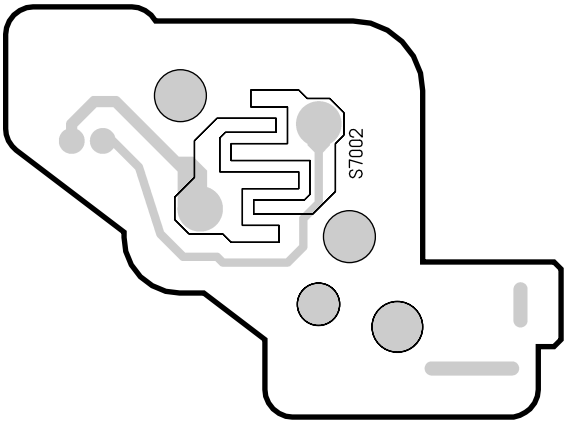
(COMPONENT SIDE)



(FOIL SIDE)

(VEP000Y1A)





(COMPONENT SIDE) (FOIL SIDE)

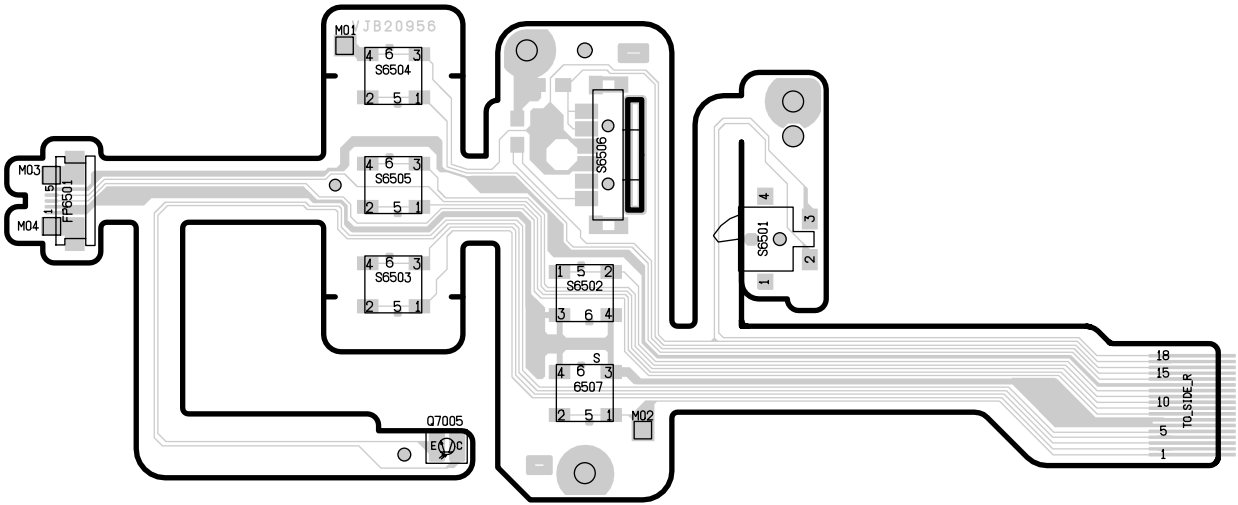
NV-MX500EG/B/EN/A/ENT
SUB REC C.B.A.

B

A

1 2 3 4 5

(VEP20956A)



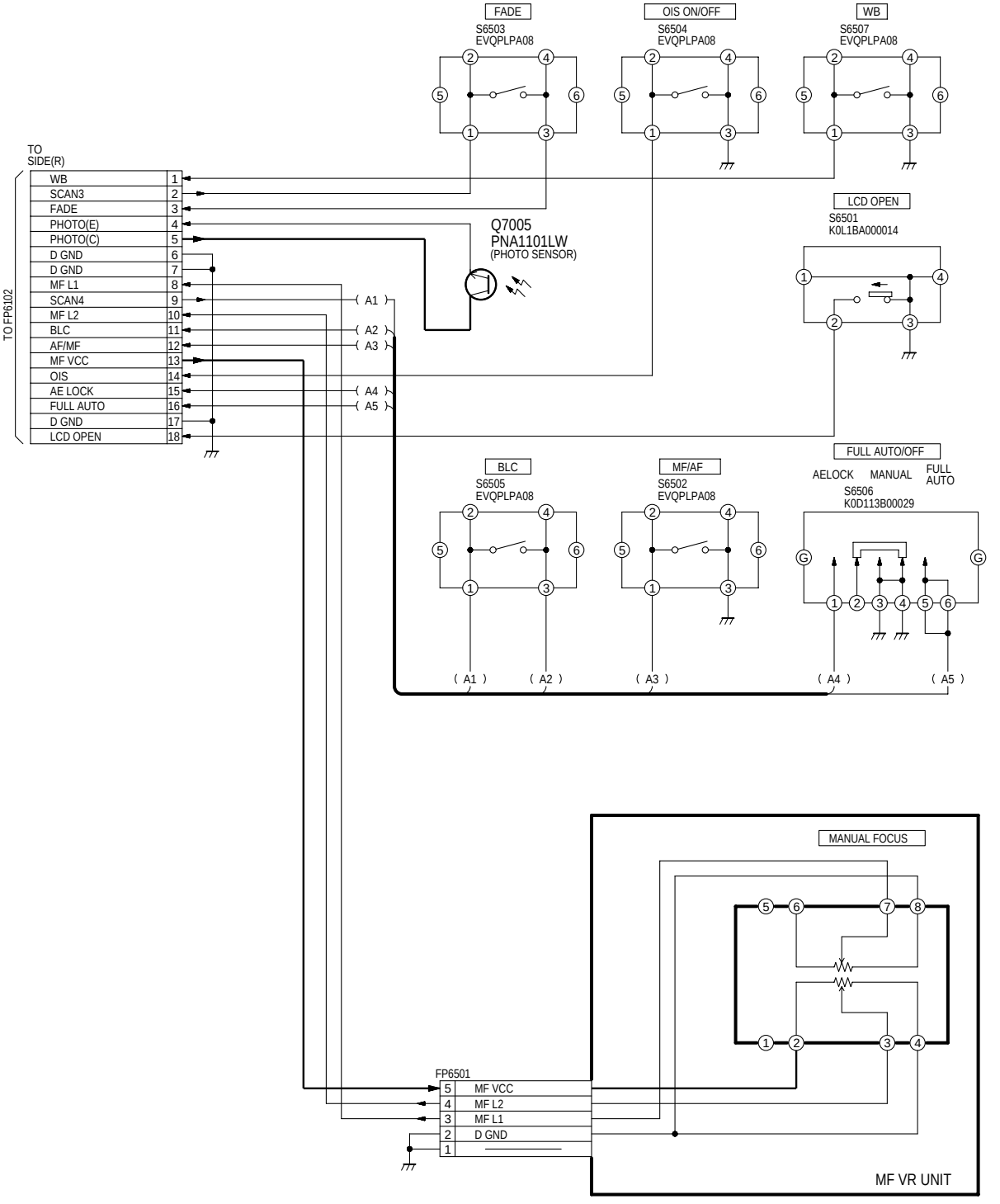
NV-MX500EG/B/EN/A/ENT
CAMERA OPERATION FLEX. C.B.A.

B

A

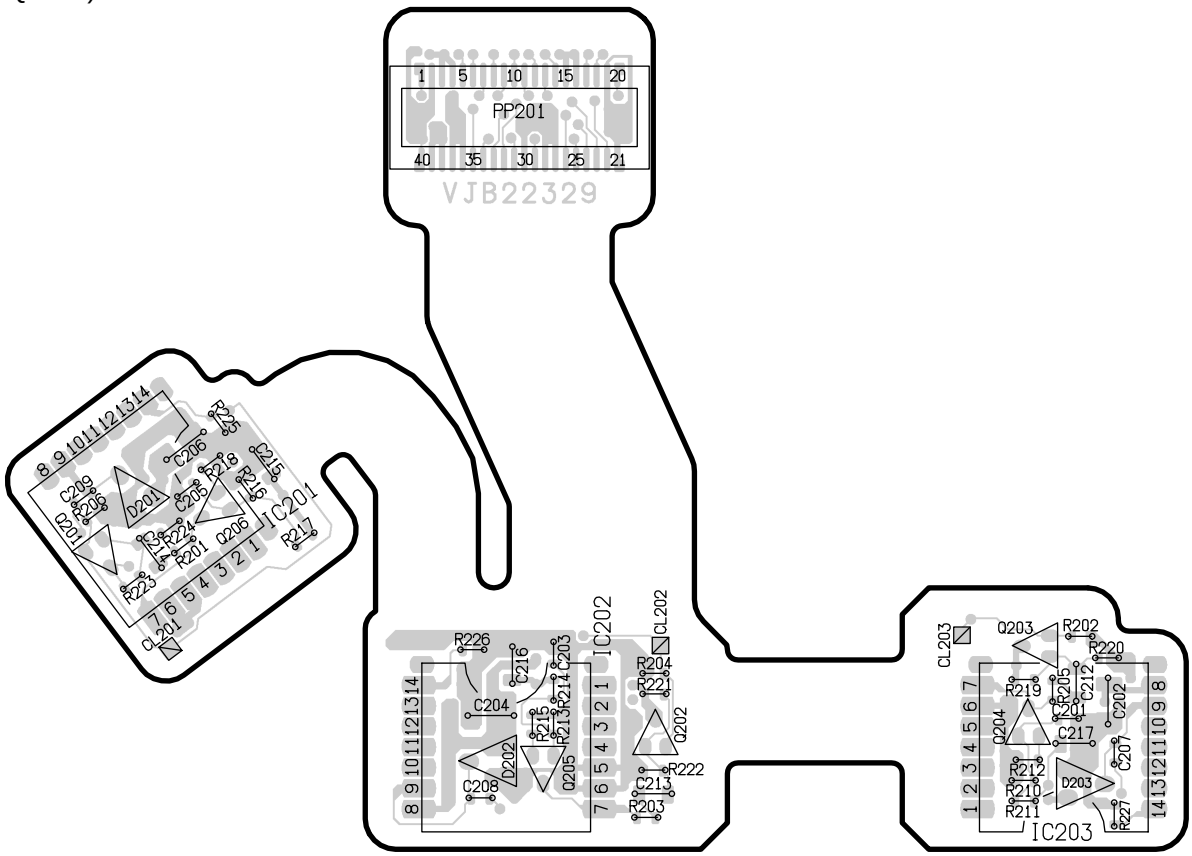
1 2 3 4 5

(CAMERA OPERATION FLEX.)



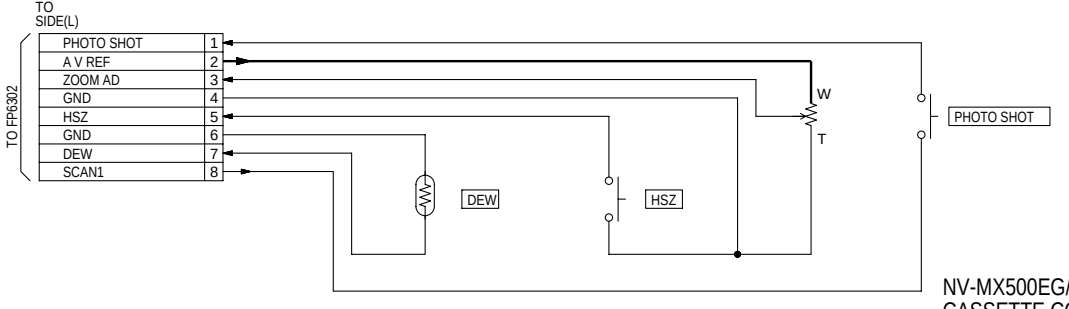
NV-MX500EG/B/EN/A/ENT
CAMERA OPERATION FLEX. & MF VR UNIT
SCHEMATIC DIAGRAM

(VXQ1076)



NV-MX500EG/B/EN/A/ENT
PRISM UNIT C.B.A.

(CASSETTE COVER UNIT)



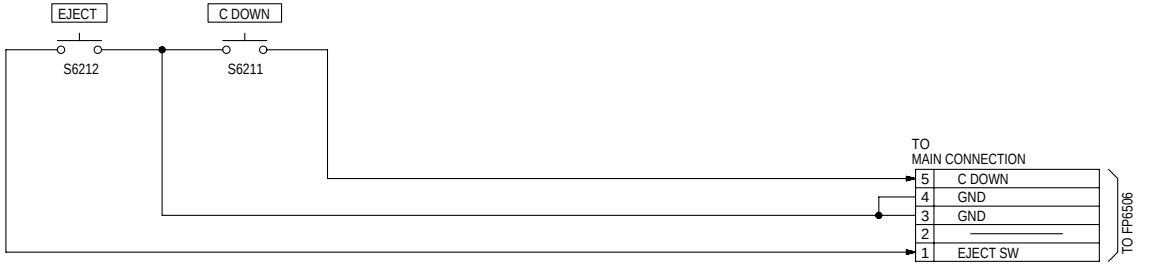
NV-MX500EG/B/EN/A/ENT
CASSETTE COVER UNIT
SCHEMATIC DIAGRAM

B

A

1 2 3 4

(CASSETTE DOWN FLEX. CARD)



NV-MX500EG/B/EN/A/ENT
MAIN FRAME UNIT(CASSETTE DOWN FLEX.)
SCHEMATIC DIAGRAM

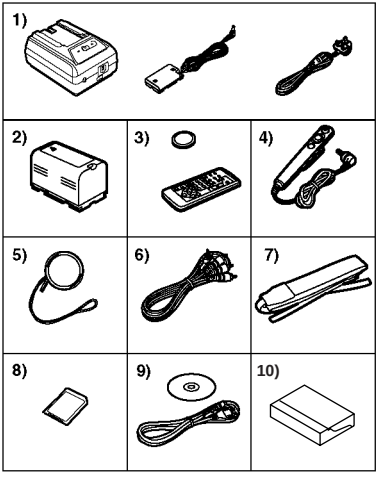
B

A

1 2 3 4

Standard Accessories

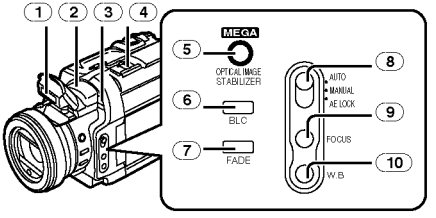
Illustrated are accessories supplied with the Movie Camera.



1) **AC Adaptor, DC Input Lead and AC Mains Lead**
2) **Battery Pack**
3) **Remote Controller and Button-Type Battery**
4) **Free Style Remote Controller**
5) **Lens Cap**
6) **AV Cable**
7) **Shoulder Strap**
8) **SD Memory Card**
9) **USB Connection Kit**
10) **Head Cleaning Cassette (NV-MX500EN/A/ENT)**

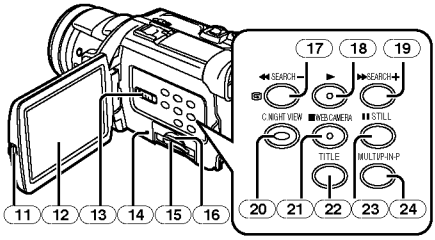
Controls and Components

Movie Camera



(1) **Auto Pop-up Flash**
(2) **Microphone (built-in, stereo)**
(3) **White Balance Sensor**
(4) **Smart Accessory Shoe**
- The Video Flash (VW-FLH3E: optional) or the Stereo Microphone (VW-VMS2E: optional), etc. can be attached here. Power is supplied directly from the Movie Camera when using an accessory supported by the Smart Accessory Shoe.
- Do not touch the connector part of the Smart Accessory Shoe.

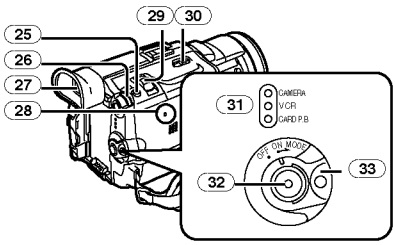
(5) **Optical Image Stabilizer Button [OPTICAL IMAGE STABILIZER]**
(6) **Backlight Button [BLC]**
(7) **Fade Button [FADE]**
(8) **Mode Selector Switch [AUTO/MANUAL/AE LOCK]**
(9) **Focus Button [FOCUS]**
(10) **White Balance Button [W.B]**



(11) **LCD Monitor Open Button [PUSH OPEN]**
(12) **LCD Monitor**

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the LCD Monitor screen. However, this is not a malfunction and does not affect the recorded picture.

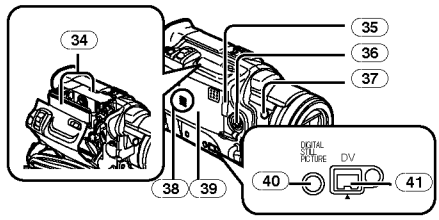
(13) **Tape/Card Selector [TAPE/CARD/CARD MODE]**
(14) **Card Access Lamp [ACCESS]**
(15) **Card Slot**
(16) **Card Slot Cover**
(17) **Rewind/Review Button [◀◀]**
Reverse Search Button [SEARCH−]
Recording Check Button [⟲]
(18) **Play Button [▶]**
(19) **Fast Forward/Cue Button [▶▶]**
Forward Search Button [SEARCH+]
(20) **Colour Night View Button [C.NIGHT VIEW]**
(21) **Stop Button [■]**
Web Camera Button [WEB CAMERA]
(22) **Title Button [TITLE]**
(23) **Pause Button [❚❚]**
Still Button [STILL]
(24) **Multi Button [MULTI]**
Picture-in-Picture Button [P-IN-P]



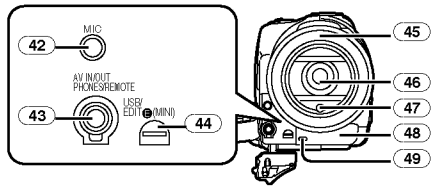
(25) **Photoshot Button [PHOTO SHOT]**
(26) **Multi-Function Dial [PUSH]**
(27) **Viewfinder**

Due to limitations in LCD production technology, there may be some tiny bright or dark spots on the Viewfinder screen. However, this is not a malfunction and does not affect the recorded picture.

(28) **Reset Button [RESET]**
(29) **Zoom Lever [W/T]**
(30) **Cassette Eject Lever [OPEN/EJECT]**
(31) **Operation Mode Lamps [CAMERA/VCR/CARD P.B]**
(32) **Recording Start/Stop Button**
(33) **Off/On Mode Selector Switch [OFF/ON/MODE]**



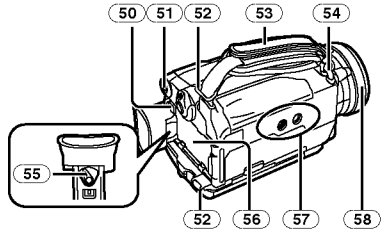
(34) **Cassette Holder**
(35) **Cassette Holder Close Button [PUSH CLOSE]**
(36) **S-Video Input/Output Socket [S-VIDEO IN/OUT]**
(37) **Sub Recording Start/Stop Button [REC]**
(38) **Speaker**
(39) **Cassette Compartment Cover**
(40) **Digital Still Picture Terminal [DIGITAL STILL PICTURE]**
(41) **DV Terminal [DV]**
- Connect this to the digital video equipment.



(42) **Microphone Socket [MIC]**
- Connect with an external microphone or audio equipment. (When this socket is in use, the built-in microphone does not operate.)

(43) **Audio-Video Input/Output Socket [AV IN/OUT]**
Headphone Socket [PHONES]
Free Style Remote Controller Socket [REMOTE]
- Connecting an AV Cable or Free Style Remote Controller to this socket activates the Movie Camera's built-in speaker, but connecting a headphone, etc. deactivates it.
- When plugging the pin plug of the AV Cable or Free Style Remote Controller to this socket, plug it in as far as it goes.

(44) **USB Socket [USB]**
Edit Socket [EDIT (MINI)]
(45) **Lens Hood**
(46) **Lens (LEICA DICOMAR)**
(47) **Flash Sensor**
(48) **Remote Control Sensor**
(49) **Recording Lamp**



(50) **Battery Eject Button [PUSH BATT]**
(51) **Menu Button [MENU]**
(52) **Shoulder Strap Holders**
(53) **Grip Belt (Free Style Grip Belt)**
(54) **Lens Cap String Holder**
(55) **Eyepiece Corrector Knob**
(56) **Battery Holder**
(57) **Tripod Receptacle**
- Used for mounting the Movie Camera on an optional tripod.

(58) **Focus Ring**

	INITIAL/LOGO	ABBREVIATIONS
A	A GND	Analogue GND
	A HASW	Audio Head Amp Switching Pulse
	A HSW	Audio Switching Pulse
	A MUTE	Audio Mute
	A ORP	Audio Overlap Pulse
	A. TR	Auto Tracking
	A0-8, 0-17	Memory Address
	A3V2	AD Converter Reference Voltage
	AB0-4	Address Bus
	AB0-4, AB12-15	Address Bus Line 0-4, 12-15
	ABSF	Focus Encoder Input
	ACI	Analogue Channel Cording IC
	AD	AD Converter
	AD	Auto Date, Analogue Digital Converter
	AD CLK	AD Clock
	AD REC	Audio Delayed REC
	AD0-6	Address
	AD0-6, ADR0-6	Address Data Line
	ADCLK	Analogue Digital Converter Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	A-DET	Audio Detect
	ADREC	Audio Delaied Rec
	ADUB	Audio Dubbing
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEE(H)	Audio E-E (H)
	AEH	Audio Erase Head
	AEIRQ	Auto Expose Interrupt Request
	AF/MF	Auto Focus/Manual Focus
	AF DIS CS	AF DIS Chip Select
	A-FADE(L)	Audio Fade (L)
	AF-AMP	AF HALL Bias
	AFCS	Auto Focus Chip Select
	AFRP	Audio PLL Voltage Control
	AF-VN	Zoom Encoder V-Ref (–)
	AF-VP	Zoom Encoder VREF (+)
	AGC	Automatic Gain Control
	AGCCNT	Automatic Gain Control Control
	AGND	Analogue Ground/Audio Ground
	AGS	Anti Ground Shooting
	AH(P) / (R)	Audio Head (Play) / (Record)
	AHASW	Audio Head Amp Switch Pulse
	AHSW	Audio Head Switch Pulse
	AI, AO	Buffer Input, Output
	AIBCK	Bit Clock (to A/D Converter)
	AIDAT	Serial Data (to A/D Converter)
	AILRCK	L/R Clock (to A/D Converter)
	AIMCK	Master Clock (to A/D Converter)
	ALC CNT	Auto Level Control Control
	ALC MAIN	Auto Level Control Drive
	ALE	Address Latch Enable
	A-LOCK	Full Auto Switch
	A-MUT(H)	Audio Mute (H)
	ANLPTH	Analogue Loop Through High
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	APS	Auto Power Save
	ART VH	Artifical Vertical Sync
	AT CNT	Automatic Tracking Gain Adjust
	ATF	Automatic Track Finding
	ATFCLK	41.85MHz Clock
	ATFG	Auto Track Gain
	ATL	Auto Lock Select
	ATN	Absolute Track Number
	ATR OFF(H)	Auto Tracking Off (H)
	ATV	Advanced TV
	AUDIO(N)	Audio (Normal)
	AUX	Auxiliary
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	BACK	Back-up
	BACK UP	Microcomputer Back-up
	BACK VDD	Back-up Power
	BATT	Battery
	BATT ALARM	Battery Alarm
	BATT REF	Reference Voltage for Battery
	BCB	B Carrier Balance
	BCBM(B-Y)	B-Y Carrier Balance
	BCBM(R-Y)	R-Y Carrier Balance
	BD0-7	REC/Play In/Out Buss
	BDCK	Standard Bus Data Clock (9MHz)
	BDEN	Standard Bus Data Enable
	BEND	Data Block End Request
	BF	Burst Flag Pulse
	BFA	Burst Flag Pulse for Encorder
	BFO/BFI	Burst Flug Input/Output
	BI, BO	Buffer Input, Output
	BL	Back Light
	BL ON	Back Light ON (L)
	BL4V	Back Light 4V
	BLC 0, 1	Back Light Y Control Out, In
	BLDI/O	Back Light Drive Input/Output
	BLK	Blanking Pulse
	BLKA	Blanking for Encorder
	BLKA	Blanking Pulse for Encorder
	BLKI/O	Blanking Pulse In/Out